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1 University Regulations and Resources

1.1 General Policies and Information

You must inform yourself of University rules and regulations and keep abreast of any changes that may occur. The *General Policies and Information* 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.

The Office of the Dean of Students administers the academic integrity process as described in the *Handbook on Student Rights and Responsibilities*.



Note: All newly-admitted undergraduate students must complete a **mandatory online academic integrity tutorial** in their first semester, accessed through [Minerva > Student Menu > Academic Integrity Tutorial](#) or a registration "hold" will be placed on their record. Prior to Fall 2018, the tutorial was completed in myCourses via the course AAAA 100, but as of Fall 2018 the tutorial must be completed in Minerva. For more information, see mcgill.ca/students/srr/honest/students/test.

Note for Graduate and Postdoctoral Studies: Graduate students must complete a **mandatory online academic integrity tutorial** accessed through [Minerva >](#)

In addition to the above, **if you are a candidate for admission to the Faculty of Medicine and Health Sciences or to the Faculty of Dentistry in undergraduate, graduate, or postgraduate studies, you would be asked to consent to** the release of personal information to other schools of medicine; to Employment and Social Development Canada; to the Ministère du Travail, de L'Emploi et de la Solidarité sociale of Quebec; to a McGill professor, researcher or graduate student, strictly for research or teaching purposes; and to a University teaching/affiliated hospital or health centre to which you apply/or join for residency or rotations.

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

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

- collect and maintain your personal information for the purpose of administering your University admissions and student record files;
- obtain copies of your transcripts from the *Ministère de l'Éducation et de l'Enseignement supérieur*; the Ontario Universities' Application Centre and/or the British Columbia Ministry of Education;
- make inquiries to and obtain personal information from the *Ministère de l'Immigration, de la Francisation et de l'Intégration*, Immigration, Refugees, and Citizenship Canada and/or the *Régie de l'assurance maladie du Québec* to verify the validity of your immigration or health insurance status;
- validate with the *Ministère de l'Éducation et de l'Enseignement supérieur* information regarding your citizenship and previous institution attended, if necessary and as required in order to manage the admissions process and to determine your tuition fees;
- verify any information or statement provided as pars98 Tm(g)Tj1 0 0 1 you w



Note: When on a leave of absence, if you wish to be covered by the undergraduate supplemental health insurance and/or international health insurance, you must contact your respective campus-wide student association (e.g., Students' Society of McGill University, Macdonald Campus Students' Society) and International Student Services to make arrangements. Note that there will be additional student society fees to be paid in order to be considered a member eligible for the insurance plans. For information about the student societies' supplemental health and dental coverage, click [here](#). For information about international health insurance, click [here](#).



Note: Once a leave of absence is granted, you must consult [Scholarships and Student Aid](#) in order to assess the impact of the leave on student aid (e.g., government loans and bursaries, etc.).



Note for M.D.,C.M. students: Refer to the [Absences & Leaves Policy of the M.D.,C.M. Program](#).

If you need to take a leave of absence because of pregnancy or because you need to care for a dependant, please consult [section 1.1.9.5: Academic Accommodation of Pregnant Students and Students Caring for Dependants](#).

1.1.8 Information Technology (IT) Policies and Regulations

- [section 1.1.8.1: Responsible Use of McGill Information Technology Resources](#)
- [section 1.1.8.2: Report Security Incidents](#)
- [section 1.1.8.3: Use of Cloud Services](#)
- [section 1.1.8.4: Two-factor Authentication \(2FA\)](#)
- [section 1.1.8.5: Email Communication](#)
- [section 1.1.8.6: Secure your Journey](#)

McGill University students, faculty, staff, and other members of the McGill community benefit from a variety of Information Technology resources. Please see [section 1.16: Information Technology \(IT\) Services](#) and visit

1.1.8.5 Email Communication

All students are assigned a McGill email address (usually in the form of *firstname.lastname@mail.mcgill.ca*) and are given a McGill email mailbox. It is your responsibility to monitor your McGill email regularly because this is the official means of communication between McGill Uni

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

Canadians who hav

1.2 Personal Information

You must inform yourself of University rules and regulations and keep abreast of any changes that may occur. The *Personal Information* section of this publication contains important details pertaining to nominative information, legal documents, and ID cards, as well as other topics, and should be consulted periodically.

1.2.1 Updating Personal Information

It is important to k



#: Please note that this program has an effective term of Winter 2022. For more information about this program please contact the Desautels Faculty of Management.

Students in all programs above, except those that are self-funded, will pay tuition as follows:

1. Students studying within the province will be subject to the rates established by the government for in-province students, according to their proven fee residency status.
2. Students who are located outside Quebec while studying, will be subject to deregulated tuition rates.

Most regular university charges will apply to all students in all online programs, but certain fees may be reduced or eliminated for students located outside the province while studying. For example, the Athletics & Recreation Fee is not charged to students located outside Quebec, and International students located outside Quebec but within Canada may request to opt-in to the International Health Insurance through mcgill.ca/internationalstudents/health.

Online program students must self-declare their location while studying for every term they are registered in the online program, via Minerva under the Student Menu > Location of Study - Online (distance) program. Students are notified by email that the Minerva form for the upcoming term is open and can be accessed for completion. The form opens to all registered students in the above programs on:

July 16 Fall term
 Nov 16 Winter term
 Mar 16 Summer term

Once a student has declared their location for a given term, they cannot use Minerva to update the information for that term if it should change. To make a change to the declaration:

- Students in a **Continuing Studies** program, call 514 398-6200 or email info.conted@mcgill.ca.
- All other students, contact Service Point at mcgill.ca/servicepoint/contact

Students will be asked to support their application for a change in location with appropriate documentation which can include, for example, Quebec Medicare Card, Quebec Driver's License, rental agreement, mail addressed to them at a Quebec address, etc. If the change of location occurs by the last day of classes in the Fall/Winter terms, and August 15th for the Spring/Summer terms, then the change will affect that term. After these dates, a student must wait for the opening of the new term to make the new self-declaration for that term. If the proof cannot be provided by the last day of classes for the term of the requested change, then Enrolment Services reserves the right to refuse the application to make the change.

Where it is determined that a student has falsely declared themselves to be in Quebec, then the University reserves the right to re-assess tuition at the deregulated rates for their program and in addition be subject to the rules contained in the Student Code of Conduct.

1.2.3 Submitting Legal Documents

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

1.2.3.1 Why Does McGill Collect Legal Documents from You?

Your tuition status at McGill will vary depending on your legal status in Canada. In order for us to determine your appropriate rate of tuition (Quebec, Canadian out-of-province, or international), we require documentation confirming your current status. We also require these documents to confirm your valid citizenship/immigration status. To find out which documents you must provide—and when they are required—refer to: [section 1.2.3.2: What Documents Does McGill Need from You?](#)

Some of the documents McGill requests of you help us obtain your **Permanent Code** from the Government of Quebec. This unique 12-character code is created by the Quebec Ministry of Education, and is obligatory for all students registered in a Quebec institution. If you have previously attended school in Quebec, you should already possess a Permanent Code; it can be found on your school report card or your CEGEP and/or university transcripts. If you do not already have a Permanent Code, we will request to have it created for you. Once it has been created, it will reflect on your unofficial transcript.

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



Note for Medicine and Health Sciences: Once admitted to the Faculty, you will be required to provide additional documentation for the purposes of admission and registration. Details are provided in the application instructions. For more information, see mcgill.ca/medadmissions/applying/elements.

1.2.3.2 What Documents Does McGill Need from You?

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

Quebec and Canadian Out-of-Province Students	
<p>You have applied to McGill directly from CEGEP or you already have a student record at McGill</p>	<ul style="list-style-type: none"> • Usually no documents are required to prove your Canadian and/or Quebec status. In most cases, your status is confirmed to us by the Government of Quebec or is already in your McGill record. Check your <i>Minerva</i> account to verify that your status is updated correctly (Select <i>Student Menu > Student Accounts Menu > View your Tuition and Legal Status</i>)

Quebec and Canadian Out-of-Province Students

You have applied to McGill from another Quebec university

•

1.2.3.2.1 Fee Exemptions

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

1.2.3.5 Where and How Do I Send My Documents?

You must send in all your documents after you have accepted your offer of admission but before the start of classes. **Do not send originals.** Email clear and legible copies of your documents. Write your McGill student ID in the filename of each document so that McGill can match them to your record. The sooner you submit your documents, the sooner the University can update your status and ensure that your record is in order.

Please refer to mcgill.ca/legaldocuments/how for detailed instructions on where/how to submit your documents.

If there is a problem with your documents, contact:

Telephone: 514-398-7878

Website: mcgill.ca/servicepoint/contact-us

1.2.3.5.1 For the School of Continuing Studies

By Email:

legaldocuments.conted@mcgill.ca

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

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

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

Telephone: 514-398-6200

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

1.2.4 Identification (ID) Cards

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

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

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

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

Note for Continuing Studies: You must allow at least one day after you have registered before applying for your ID card. You will not be issued an ID card if you have 1 Tor C will i7.52 591.74 Tm(By Email:)Tj01 8.1 Tf1 0 01 Tf1 0e(ac1crse before ents.con4361 16193.541 Tm(ccess M1.3astn4361 1619

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

1.2.4.2 ID Card Schedule for the Macdonald Campus

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

Student Affairs Office, Room 106, Laird Hall

Office hours:

Monday through Friday – 9:00 a.m. to 4:00 p.m.

Friday throughout the summer – 9:00 a.m. to 3:00 p.m.

1.2.5 Legal Name

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

After confirming your offer of admission and registering at McGill, the name provided on your admission application is validated, and in the event of a variation updated, to match the legal name appearing on one of the following documents:

- 1.

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

1.2.5.2 Verification of Name

You should verify the accuracy of your name on McGill's student records via Minerva ([mcgill.ca/minerva](#)). To do this, go to *Personal Menu > Name Change*, where you can make minor corrections such as changing case (upper/lower), adding accents, and spacing. You can also add a preferred first name that is different from your legal first name, and it will be used internally at McGill. For more information on the Preferred First Name Procedure, see [mcgill.ca/student-records/personal-information/address](#).

Note that you cannot change your legal name via Minerva. Requests for such changes must be made by presenting official documents (see [section 1.2.5: Legal Name](#)

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.

1.3.2.3 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 > section 1.5.2: Credit System](#).

1.3.2.3.1 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.



Note: To be considered for in-course awards, including Dean's Honour List designations, and/or the renewal of entrance scholarships, you must complete at least 27 graded credits in the regular academic session (unless otherwise stated by your faculty), not including courses completed under the S/U option.



Note: The S/U option is not available via Minerva to Visiting, Exchange, or Quebec Inter-University Transfer Agreement (IUT) students. These students must first contact their home university to ensure that a course taken under the S/U option is acceptable to their home university and that the credits are transferable. After receiving approval from their home university and before McGill's course change deadline, they must then consult their McGill Faculty Student Affairs Office for approval. **Students in the faculties of Arts or Science:** you will need to go to [Service Point](#) (3415 McTavish Street) to make this request. 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 mcgill.ca/students/advising.



Note: Special Students are not eligible to select the S/U option.

For further information, contact your departmental adviser or Student Affairs Office, as appropriate.

Note for

1.3.2.7 Auditing of Courses

McGill does not permit auditing of courses.



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

1.3.3 Course Change Period

You may make changes to your course registrations (add or drop courses), subject to the requirements and restrictions of your program and individual courses add or 0 0 0



Note:

1. To withdraw from required or complementary courses after the withdrawal (without refund) deadline, you may need to obtain permission from your adviser, and you must fill out and submit a course withdrawal form, available from your faculty Student Affairs Office. Additional restrictions for Music courses are indicated in [Schulich School of Music](#).
2. It is solely your responsibility to initiate a course withdrawal on [Minerva](#). Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on [Minerva](#) is the official date of withdrawal, even if you had stopped attending lectures earlier.
3. You may still withdraw from a course after the course change deadline without academic penalty provided that you do so within the appropriate withdrawal deadlines for the term. Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with [section 1.4.7: Fees and Withdrawal from the University](#).
5. Withdrawing from one or more courses during the semester may—where applicable—affect your government aid and/or McGill's Work Study Program eligibility. For international students, it may also impact your immigration status and/or permission to work in Canada. Please ensure that you are aware of any consequences related to the course withdrawal request; consult with the [Scholarships & Student Aid Office](#), [International Student Services](#), and/or your faculty Student Affairs Office, where relevant.

Note for the School of Human Nutrition: Intensive internship courses, lik

Class Sc

a non-music minor alongside their degree. A few music minors are open to students from other faculties. Visit the music minor website for more information: mcgill.ca/music/programs/minor.

1.3.6 Interfaculty Transfer

If you are a McGill student, have not graduated, and want to transfer into another undergraduate faculty, you may apply using the *Minerva Faculty Transfer/Readmission Menu* (mcgill.ca/minerva), unless otherwise indicated in mcgill.ca/student-records/transfer-readmission.

You must also refer to your faculty website for faculty-specific rules and to determine what supporting documents must be submitted for your application. To access the faculty websites, and for more information on how to apply and deadlines for faculty transfers, please see mcgill.ca/student-records/transfer-readmission.



Note for International students: Please note that International students who transfer to a different degree will be charged the tuition rate in effect for newly admitted students in their new degree in their term of transfer. Please refer to the [Student Accounts](#) website for details.

1.3.7 Quebec Inter-University Transfer Agreement

1.3.7.1 Quebec Inter-University Transfer Agreement: McGill Students

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

If you are a regular McGill undergraduate or graduate degree, diploma, or certificate student, you may register, with your faculty's permission, at any Quebec university for three—or in some cases six—**credits** per term in addition to your registration at McGill. You may also obtain permission to complete a full term (i.e., 12 to 15 credits) at another Quebec university. Your combined registration may not, however, exceed the total number of credits you are permitted to complete in a given term. These courses, subject to faculty regulations, will be recognized by McGill for the degree that you are registered for, up to the limit imposed by the residency requirements of the program. Normally, you must complete a minimum residency requirement of 60 credits at McGill in order to qualify for a McGill degree (you should check with your faculty). This privilege will be granted if there are valid academic reasons.

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

- The Quebec universities concerned may, at their discretion, refuse the registration of a student for any of their courses.
- You must complete your faculty and program requirements.
- You are responsible for ensuring that the McGill Class Schedule permits you to take these courses without conflict.
- The Quebec universities concerned are not responsible for special arrangements in cases of examination or class schedule conflicts.
- Grades earned at the host university will not be included in your McGill grade point averages (GPA) or sho

Note for Physical and Occupational

1.3.8.2.1 Fall Term

From September 1 to September 14, 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 September 14 and until the deadlines indicated below, you may *withdraw* from all courses to effect a University withdrawal.

- Deadline for University withdrawal with refund (minus \$200 for returning students and the registration deposit for new students): **Tuesday, September 21, 2021**
- Deadline for University withdrawal without refund: **Tuesday, October 26, 2021**

1.3.8.2.2 Winter Term

From January 1 to January 18, 2022 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 18 and until the deadlines indicated below, you may *withdraw* from all courses to effect a University withdrawal.

- Deadline for University withdrawal with refund (minus \$200 for returning students and the registration deposit for new students): **Tuesday, January 25, 2022**
- Deadline for University withdrawal without refund: **Tuesday, March 8, 2022**



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 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 (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 Withdrawal Request form is required by the withdrawal deadlines and is available at 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.

1.3.8.3 Consequences of University Withdrawal

Any applicable fee refunds for the term of withdrawal will be according to [section 1.4.7: Fees and Withdrawal from the University](#).

Once you withdraw, you must return your ID card to the University as stated in [section 1.2.4: Identification \(ID\) Cards](#).

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



Note: If you withdraw from the University and want to re-register in a later term, you must follow the procedures for readmission, except if you are in the following faculties (in which case you must contact your Student Affairs Office): Music, and Agricultural and Environmental Sciences. See [University Regulations & Resources](#) > Undergraduate > Registration > [section 1.3.10: Readmission](#) for more information.



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

1.3.9 Deferred Admission

mcgill.ca/oasis

Term(s) offered (Fall, Winter

If you believe that you have valid reasons for taking a course that may not be credited toward your program, you must obtain the permission of the Associate Dean or Director.

1.3.12 Summer Term/Summer Studies

McGill Summer Studies offers over 300 credit courses in various disciplines. Courses begin in either May, June, or July, and are usually one-month intensive. These courses may be accepted for transfer credit by other universities. For more details, see [Summer Studies](#) or contact the Summer Studies Office at 514-398-5212.

If you take a McGill summer course to complete your graduation requirements, you will receive your degree at the Fall convocation (normally held in November).

It is your responsibility to follow the University and faculty regulations. When registering, you must not exceed the maximum credits permitted by your faculty.

You cannot register for more than 12 credits (Music students, 18 credits) during the summer, at McGill or at other universities, except by special permission of your Associate Dean or Director.

The maximum number of credits you may take in the Summer term (May, June, and July combined) as a McGill, Visiting, or Special Student is 12 credits.

You may take a maximum of two courses in Arts, Education, Engineering, Management, or Science, in any one Summer session (May, June, or July session).

Please note that the schedule of lectures in Summer courses is very intensive and that two courses in one session is considered a very heavy workload. To register for more than two courses in Arts, Education, Engineering, Management, and Science—or more than one course in other faculties:

- McGill students must obtain written permission from their faculty;
- Visiting students must obtain written permission from both their home university and the faculty in which they are registered;
- Special students must obtain written permission from the faculty in which they are registered.

Quebec Inter-University Transfer (IUT) students may take, in one summer term, a maximum of one course regardless of credit weight. Permission to register for more than one course per term must be obtained from the McGill faculty in which the student is registering by using the BCI's (*Bureau de coopération interuniversitaire*, previously known as CREPUQ) IUT website at www.bci-qc.ca/ (see [section 1.3.7.2: Quebec Inter-University Transfer Agreement: Visiting IUT Students](#)).

1.4 Fees

The information in this publication was updated in January 2021. **The University reserves the right to make changes without notice in the published scale of fees.**

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

For information on financial support, see [University Regulations & Resources](#) > [Undergraduate](#) > [section 1.8: Scholarships and Student Aid](#).



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

1.4.1 Access to Fee Information

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

1.4.2 Billing and Due Dates

The following sections contain information Tm(F)Tj1 0 0 T se.661 451.381 Tm(-U-9ctions contain61 451.381 Tmsec19ctions contaicial suaTf1 0 nta1 451.381 Tmdp8

Failure to check your McGill email on a regular basis in no way warrants the cancellation of interest charges and/or late payment fees. Refer to the

1.4.3.3 Tuition Assistance for McGill Staff

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1.4.6 Other Fees

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

1.4.6.1 Other Fees: Health Sciences

Fees specific to Health Sciences students are listed in each Health Sciences faculty or school section:

- [Dentistry](#)
- [Medicine](#)
- [Nursing](#)
- [Physical & Occupational Therapy](#)

under *Undergraduate* or *Professional* > *Health Sciences: General Information* > *Fees: Health Sciences*.

1.4.7 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 1.3.8: University Withdrawal](#).

1.4.8 Other Policies Related to Fees

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

1.4.8.1 Overdue Accounts

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

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

Break in Enrolment: International students in Computer Science, Engineering, Law, Management, or Science, who apply for readmission after an absence of four consecutive terms or more, will be charged the tuition rate in effect for newly admitted students in their term of readmission.

1.4.8.4 Fees for Students in Two Programs

Students in two programs are normally billed additional fees for their second program. Depending on the level of the two programs (e.g., one at the undergraduate level versus one at the graduate level), you may incur both society and faculty fees and/or additional tuition fees. Consult the Student

and fees will be due in full by the ne

1.5.1.2 Academic Standing: Faculty of Agricultural and Environmental Sciences

Agricultural and Environmental Sciences students, see [Faculty of Agricultural and Environmental Sciences](#) > [Undergraduate](#) > [About the Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition \(Undergraduate\)](#) > [Faculty Information and Regulations](#) > [section 2.4.6.5: Academic Standing](#).

- you are strongly advised to consult an academic adviser, before withdrawal deadlines, about your course selection;
- you should see your Faculty adviser to discuss de



Note: The Faculty determines Academic Standing decisions after the completion of each term (Fall, Winter, Summer) based on grades obtained up to that point. If you have been granted permission to defer one or more examinations, the Academic Standing decision will be made disregarding the deferred exam grade.

Satisfactor

1.5.1.7 Academic Standing: School of Continuing Studies

If you are in Unsatisfactory Standing, you must apply to the Appeals Committee of your academic area.

1.5.1.8 Academic Standing: Schulich School of Music

Music students, see [Schulich School of Music](#) > *Undergraduate* > *Academic Information* > [section 10.7: Academic Policies](#).

1.5.2 Credit System

The faculties listed in this publication use the credit system, where each course is assigned a credit rating reflecting the number of weekly contact hours. In general, a three-credit course indicates three hours of lectures per week for one term, but this does not apply to all faculties. Laboratory contact hours usually count for fewer credits. Credits also reflect the amount of effort required of you and generally assume two hours of personal study for each contact hour.

The credit weight of each course is indicated in parentheses beside the course title.



Note: One credit equals about 45 hours of work. This may be a combination of lecture, laboratory, tutorial, and conference time plus personal study hours. Personal study hours may include required activities, group activities, time spent doing assignments, and preparing and reviewing for a course. All synchronous activities should be held within the time the course is scheduled per the [Minerva Class Schedule](#). Credit hours normally do not require a set number of synchronous hours, allowing for flexibility in course design and scheduling options. However, some programs, such as those with accreditation requirements, may require a minimum of synchronous contact hours.



Note: Credit for multi-term courses (courses with the suffixes: D1, D2; N1, N2; J1, J2, J3) is granted only after successful completion of all components in the specified time frame. For example, a student would have to take D1 and D2 components in consecutive terms and successfully complete them both in order to obtain credit.



Note for Agricultural and Environmental Sciences, and Science: As a guideline, a one-credit course would represent approximately 45 hours total work per course. This is, in general, a combination of lecture hours and other contact hours such as laboratory periods, tutorials, and problem periods as well as personal study hours.



Note for Engineering: One credit normally represents three hours total work per week. This is, in general, a combination of lecture hours and other contact hours such as laboratory periods, tutorials, and problem periods as well as personal study hours. As a guide, the average number of hours per week of course activities is indicated in the course listing in a note underneath the course description. For example, (3-1-5) indicates a course consisting of three lecture hours per week, one hour of tutorial or lab, and five hours of personal study per week.

Note for Summer Studies: For Summer courses 1 558.326 599.581 Tm(.)85.5538li

Grades have the following designations:

F Fail

1.5.3.1 Grading and Grade Point Averages (GPA): Other Grades



Note: Not all grades listed below apply to every faculty, school or level. Faculty policy prevails when determining if a student may be eligible to receive one of these grades.

Other Grades

J	—	unexcused absence (failed); the student is registered for a course but does not write the final examination or do other required work; calculated as a failure in the TGPA and CGPA
K	—	incomplete; instructor has extended the deadline for submission of work in a course
KE or K*	—	further extension granted for submission of work in a course, approval from the Faculty SAO may be required
KF	—	failed to meet the extended deadline for submission of work in a course; calculated as a failure in TGPA and CGPA
		completion requirement waived; not calculated in TGPop.52 Tm(v)Tj1 0 0 7.59 Tm 25561 211.833 58s to

1.5.3.2 Unexcused Absences

All students who miss a final exam or do not complete other final work in a course are given a J grade. You then have the following options:

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



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



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



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

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

You must request option 2 by the faculty deadlines as indicated in [University Regulations & Resources](#) > Undergraduate > Examinations: General Information > Final Examinations > [section 1.6.3.2: Final Examinations: Deferred Examinations](#).

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

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





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

Note for Graduate and Postdoctoral Studies: Only options 2 and 3 above

1.5.4.2.1 Verification of Student Records: Unofficial Transcripts

Subject to [section 1.5.8: Changes to Student Records after Normal Deadlines](#), you are responsible for verifying your academic record on

 **Note:** In exceptional circumstances, and with the approval of the Associate Dean or Director, the deadline may be extended further, in which case the grade of KE (further extension granted) appears. If you do not meet the extended deadline, a grade of KF will replace the KE.

 **Note for the Faculties of Arts and Science (including B.A. & Sc.):** An instructor who believes that there is justification for a student to delay submitting term work may extend the deadline until after the end of the course. In this case, the instructor will submit a grade of “K” (incomplete), indicating the date by which the work is to be completed. The maximum extensions for the submission of grades are as follows:

Students graduating in June

Fall, Winter, and multi-term courses	April 30
--------------------------------------	----------

Non-graduating students

Fall courses	April 30
Winter and multi-term courses	July 30
Summer courses	November 30

Students’ deadlines for submitting their work must be scheduled appropriately before these dates to ensure that the work can be assessed and the grade submitted on time.


It is important to note that instructors may impose earlier deadlines than those listed above.

If grades to clear Ks have not been submitted by the above deadlines, the K is automatically changed to a KF and counts as an F in the GPA.

Students with a grade of K who have serious extenuating circumstances may request an extension of the K deadline (KE) from the Associate Dean or Director of their faculty.

For more information, see [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#).

Requests must be made to the instructor for consideration. If your request is approved, the instructor will inform you of the extension deadline, and submit a grade of K (incomplete). 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 mcgill.ca/students/advising.

 **Note for the Faculty of Agricultural and Environmental Sciences:** The maximum extensions for the submission of grades to the Student Affairs Office are as follows:

Students graduating in June

Fall courses	January 15
Winter courses, and courses spanning Fall/Winter	April 30


Non-graduating students


Fall courses	January 15
Winter courses, and courses spanning Fall/Winter	May 15

Students’ deadlines for submitting their work must be sufficiently in advance of these dates to ensure that the work can be graded and the mark submitted on time. It is important to note that instructors may impose earlier deadlines than those listed above.

If instructors have not submitted grades to clear Ks to the Student Affairs Office by the above dates, the K is automatically changed to a KF and counts as an F in the GPA.

Students with a grade of K who have serious extenuating circumstances may request an extension of the K deadline (KE) from the Associate Dean (Student Affairs). More information about grading and credit is found under *University Regulations and Resources > Undergraduate > Student Records > section 1.5.3: Grading and Grade Point Averages (GPA)*.

 **Note 1 for Law students:** In the Faculty of Law, permission to delay submission of required term work must be obtained from the Director (Student Life & Learning). It cannot be granted by the instructor. If, in the opinion of the Director (Student Life & Learning), there is sufficient reason to permit a delay in the submission of required term work, the Director may grant you an extension of the deadline after the end of the course. In this case, the instructor will submit a grade of K (incomplete). If an extension of the deadline is granted, the Director (Student Life & Learning) will indicate the date by which you must complete the work. If the instructor submits a new grade within the new deadline, both the new grade and the grade of K will appear on your faculty reports and verification forms. However, on your official transcript the new grade will replace the K. If the required work is not completed before the deadline, a grade of KF will be updated on your record. A KF denotes a failed course and is calculated in the TGPA and CGPA the same as an F. In exceptional circumstances, and with the approval of the Director (Student Life & Learning), the deadline may be extended further, in which case the grade of KE (further extension granted) will appear. If the extended deadline is not met, a grade of KF will replace the KE.

 **Note 2 for Law students:** If, without a valid excuse, you do not participate in or write a final examination or submit required term work for any courses you were registered in, you will receive a final grade of J (unexcused absence).

1.5.6 Transfer Credits

Students who have been approved to transfer credits from another university and students who participate in a formal university exchange could be eligible to transfer earned credits to McGill if the grade earned in the host university course(s) is equal to or higher than the grade/CGPA required to graduate from the host university. The policy will apply to both elective and required courses and, to be counted, courses must be taken at the host institution for the same purpose (i.e., major, minor, elective etc.) than they would have at McGill. Please note that grade/GPA requirements may differ across programs and that your Student Affairs Office will determine the category to which credits are transferred to your program.

You need to obtain approval from your Student Affairs Office for courses taken at other universities. In some faculties, you need to obtain approval from your Student Affairs Office as well as from your academic adviser before taking the courses, especially if the courses are part of your program requirements. Please note that credits that have not been preapproved might not be transferred. Admissions, Faculties, and Departments vet the courses they approve for credit and thus have the right to refuse certain courses that do not satisfy program requirements.

You may be granted credit for courses meeting the requirements described above at other universities, as long as you are within the number of credits imposed by McGill's residency requirements and program requirements for some faculties. In general, a minimum of 60 credits completed at McGill is needed to qualify for a McGill degree. You must be in Satisfactory Standing in order to be granted the transfer credits.

Grades for transfer courses earned at the host university are not entered on your McGill transcript and are not part of the TGPA or CGPA calculation. Courses at a host university which you fail or from which you withdraw will appear on your McGill transcript with zero credit granted.

For universities outside Quebec, it is your responsibility to ensure that the host institution sends an official transcript to the Student Affairs Office. You must submit all documents required for approval of your transfer credits with your faculty at McGill **within four months** of completing your exchange program or study away. If you are studying at another [Quebec university on an Inter-University Transfer \(IUT\) agreement](#), the host university sends your grade(s) to McGill automatically. For additional information, see [section 1.3.7: Quebec Inter-University Transfer Agreement](#).

Transcripts for transfer courses must be received by the following deadlines:

Graduation Term	Convocation
April 1, if your term of graduation is Winter	Convocation in Spring
August 15, if your term of graduation is Summer	Convocation in Fall
December 15, if your term of graduation is Fall	Degree granted February, Convocation in Spring

Transcripts not received by the appropriate date are considered for the next graduation period only.



Note for the Faculty of Arts: The Arts Office of Advising and Student Information Services (OASIS) does not encourage you to participate in any type of study away or exchange in the last term of your final year (U3), as this will delay your graduation to the next graduation period.



Note for the Faculty of Engineering: If you are completing a B.Eng. degree, half of your program must be completed at McGill. The number of transfer credits granted for courses taken outside McGill can therefore not exceed 50% of the total credits for your program. Note that the total credits for your program includes those associated with the Required Year 0 (Freshman) courses. If you are completing the B.Sc.(Arch.) degree, the number of transfer credits granted will be limited to ensure that you complete a minimum of 60 credits of courses at McGill taken to satisfy your degree requirements, excluding those taken to satisfy the Required Year 0 (Freshman) courses listed in your program.



Note for the Faculty of Law: A limited number of the credits required for the BCL/JD degree program may be obtained in appropriate courses offered by other McGill faculties or other universities, with the approval of the Director (Student Life & Learning) before registration. The total number of credits allowed under this regulation must not exceed six non-law credits and six non-McGill law credits.



Note for the Faculty of Science (including B.A. & Sc.): The Science Office for Undergraduate Student Advising (SOUSA) does not encourage you to participate in any type of study away or exchange in the last term of your final year (U3), as this will delay your graduation to the next graduation period.

1.5.6.1 Advanced Standing Transfer Credits

Students who hav

1.5.7 Verification of Student Records: Degree Evaluation

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

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

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

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

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



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



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

1.5.8 Changes to Student Records after Normal Deadlines

1.5.8.1 Student Record Changes

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

1.5.8.2 Registrar Deadlines

Fall term – January 31

Winter term – June 1

Summer term – October 1

1.5.8.3 Before Registrar Deadlines

For record changes after the normal deadlines published in this publication, but before the [section 1.5.8.2: Registrar Deadlines](#), you must make a request in writing to your Associate Dean or Director, clearly explaining why you could not request the change before these dates. The Associate Dean or Director will review your request and make a decision. If your request is approved, the change is processed according to existing faculty and Enrolment Services student record procedures.



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

1.5.8.4 After Registrar Deadlines

The University does not normally consider a change requested after the [section 1.5.8.2: Registrar Deadlines](#).

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.

1.5.8.6 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 1.2.3.1: Why Does McGill Collect Legal Documents from You?](#) You may be assessed a fee for a change requested after the submission deadline.

1.6 Examinations: General Information



Note: The University Exam Regulations governed by the University Student Assessment Policy are available at mcgill.ca/exams/regulations.

In addition to the University Student Assessment Policy (available on the [Secretariat website](#)) and the general examination regulations listed at mcgill.ca/exams/regulations, you should also consult the faculty sections of this publication for particular regulations. You will be informed of the evaluation method used in each course by the end of the Course add/drop period.

As per the [section 1.1.3: McGill Language policy](#), every student has a right to write papers, examinations and theses in English or in French, except in courses where knowledge of a language is one of the objectives of the course.

You are not permitted to write an in person or online examination in any course unless you have fulfilled the requirements of the course to the satisfaction of the instructor and your Associate Dean or Director. For an in person examination or test, you must submit all written work to the instructor; for an online examination, you must submit a copy in

1.6.3 Final Examinations

Final examinations in regularly scheduled courses are held during the final examination period at the end of the term. The format of the final exams can be either online or in person, depending on the situation. The dates of the final examination periods are listed at mcgill.ca/exams.



Important Note: You are advised not to make travel plans prior to the release of the Final Exam Schedule. Vacation plans *do not* constitute grounds for the deferral or re-scheduling of final exams.



Note for Summer Studies: All information pertaining to final exam conflicts can be found at mcgill.ca/summer/finalexams.

In some courses there is no final examination; your final grade in these courses is determined by different forms of assessment(s) indicated in the course outline. During the first week of class, students will be provided with a course outline, which along with other details, will include the types of assessment to be used in the course and the weight accorded to each assessment.

1.6.3.1 Final Examinations: University Regulations Concerning Final Examinations

1.6.3.1.1 Preamble

The objectives of these regulations are as follows:

1. to protect students from excessive workloads;
2. to use the entire term to maximum advantage.

1.6.3.1.2 Regulations

1. These regulations shall apply to undergraduate courses up to and including the 500 level that are evaluated by the use of written examinations. They shall not apply to clinical, field, laboratory, performance, and seminar courses, or to other courses that are evaluated solely by means of a design, paper, program, or project.
2. Written examinations (including take-home examinations) shall not be held during the last two weeks of scheduled classes during the Fall and Winter terms, except where a pattern of continuous evaluation has been established, in which case the total value of examinations given in this period shall comprise no more than 10% of the final grade.
3. If the written examinations in a course constitute 50% or more of the final grade, one of these shall be given as a final written examination, and it shall take place during the examination period after the last day of scheduled lectures in December or April. Final examinations can be administered as either in person or online assessments.
4. A final examination given during the examination period shall be worth at least 25% of the final grade.
5. Students shall be informed of all course requirements by the end of the course add/drop period. All term work shall be assigned early enough in the term for students to complete the assignment(s) by the last day of class.
6. The due date for term work in courses to which these regulations apply shall be no later than the last day of classes.
7. In courses that span the Fall and Winter terms (course pairs with numbers ending D1 and D2), instructors who wish to give a mid-year examination in December must schedule it in the formal examination period.
8. The principles enunciated in these regulations shall be applied, appropriately modified, to courses given during the summer, to other courses of less than a 13-week duration, and to courses in the Faculties of Law, Medicine and Health Sciences, Dentistry, and Education that do not follow the normal University Timetable.
9. Individual faculties may propose variations in these regulations to the Academic Policy and Planning Committee to meet their special needs.
10. These regulations, and any variations to them, shall be made known to students by each faculty.

Instructors are not permitted to grant any special treatment regarding examinations to any student. Students who believe there are circumstances which might justify making special examination arrangements for them or which might legitimately be taken into account in evaluating their performance should apply to the Associate Dean or Director of their faculty.

Note for the Faculties of Arts and Science (including B.A. & Sc.): Requests are made at [Service Point](#) (3415 McTavish Street). However, it is

1.6.3.2 Final Examinations: Deferred Examinations

Step 1: Understanding your options and the consequences

Deciding whether or not to defer a final exam can be difficult. While there are obviously times when taking that step is necessary, there are usually more cons involved than pros. If you're contemplating applying for a deferred exam, consider the following first:

- Exams during the regular period are scheduled shortly after the end of the course. Deferred exams are held much later after the end of a term, **meaning course material will not be as fresh.**
- Applying for a deferred exam does not guarantee approval. **Deferred exam requests are not automatically granted**, even with supporting documentation. Consult the "Eligibility" section for more information.
- Deferrals are meant to help students who are severely ill or dealing with unforeseeable, significant extenuating circumstances. Requests due to minor illnesses (cold), minor personal matters, or scheduling conflicts (travel plans) **will not be approved.**
- **Do not use deferral requests to manage your exam schedule** or to reduce your exam load. If you request to defer one exam due to illness, then write another exam the same day or the next, your request will likely be refused. It is your responsibility to plan how you will meet the academic requirements of your program.
- **Deferred exam requests will not be approved if you attend your exam** and partway through decide that you were not well enough to perform at full capacity.
- In cases of incidental illness (e.g., a cold, cramps, nausea, etc.) that affected your study time leading up to the exam, but where you recovered on the day of your exam, you are expected to write your exam, and a deferral **will not be granted.**
- If you have requested a deferred exam in the past, any **future requests will be reviewed more stringentl477.96 Tm(e)Tj1 0 0 1 344ej13242 .338 477.96 Tm(y)T**

be cancelled, and late documents will not be accepted. See "Submitting a request" for details on accepted supporting documents and how and when to submit supporting documents.

- First-time requests: Students in eligible faculties (**listed below**) who request a **first-time** exam deferral due to illness or other serious extenuating circumstance may be granted the deferral without the need for supporting documentation (such as a medical note). Students requesting a first-time deferral are nonetheless required to have a valid reason, and all other requirements and deadlines for submitting a request for a deferred exam will apply.

Eligible faculties:

- Science (including the Bachelor of Arts & Science)
- Management
- Law
- Engineering (including School of Architecture)
- Education
- Arts (including Schools of Social Work and Religious Studies)
- Agricultural and Environmental Sciences

Ineligible faculties/schools:

- Continuing Studies
 - Nursing
 - Information Studies
 - Physical and Occupational Therapy
 - Dentistry
 - Medicine and Health Sciences
 - Music
 - Graduate and Postdoctoral Studies
- For ineligible faculties/schools, the [guidelines](#) for your home faculty or school are applicable.

Step 3: Submit your request

1. Read *Step 1: Options and consequences*, and *Step 2: Eligibility*.
2. Check the deadlines for submitting a request applicable to you. Visit [My Exams](#) to view deferred exams application deadlines.
3. Submit your request. You must do this by the posted [deadline](#) in your [faculty guidelines](#).

Faculty	How/Where do I submit an exam deferral request?	Where do I submit supporting documents (e.g., medical note)?	Where can I seek academic advising?
Agriculture and Environmental Sciences	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Student Affairs at Macdonald Campus	Student Affairs at Macdonald Campus OASIS

Faculty	How/Where do I submit an exam deferral request?	Where do I submit supporting documents (e.g., medical note)?	Where can I seek academic advising?
Graduate Studies	Consult with the <i>Graduate department</i> - your Graduate Program Coordinator must submit a <i>Deferred Exam Request</i> on your behalf	Consult with your <i>Graduate department</i>	Departmental Supervisor
Law	<i>Minerva</i> (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Law <i>Student Affairs (3644 Peel, room 433)</i>	In person at Law <i>Student Affairs (3644 Peel, room 433)</i>

c. Information about your circumstances:

- a statement of capacity, indicating that you weren't/aren't able to attend your exam and why;
- the date(s) that you were/are incapable of doing so;
- the date on which you'll be able to resume your studies/exams.

When do you need to provide it?

Supporting documents must be sent as soon as you have submitted your *Minerva* request. Note that incomplete requests will be cancelled.

- Arts and Science students:
 - Submit PDF copies of your documents to Service Point by completing the Current student Contact form mcgill.ca/servicepoint/current-student-contact-form and selecting the option "Final Exams".
- Students from all other F

- Email your statement - including PDF-formatted supporting documents - to servicepoint@mcgill.ca from your McGill email account, ensuring that the subject line reads "Decision Review: Deferred Exam".
- Decisions are reviewed by a committee consisting of the following individuals: Director, Service Point; Registrar and Executive Director of Enrolment Services; and either the Associate Dean (Arts OASIS) or the Director of Advising (Science SOUSA), depending on your F

- Requests for a final exam reread must be made via [Service Point](#);
- It is strongly recommended, but not required, that you consult with the instructor of the course before requesting a reread of a final exam.

Students from outside the Faculties of Arts or Science who are taking a course administered by the Facultyties of

- Supplemental examinations are not available for courses administered by Agricultural and Environmental Sciences, Engineering, Management, Music, or Nursing;
- Special permission is required if you want to write supplemental exams totalling more than 8 credits;
- The format of the supplemental examination (e.g., multiple-choice or essay questions) will not necessarily be the same as the final examination, so you

- additional work in courses outside the F

1.6.6.1 Laptop Examination Agreement

The Examination Agreement is designed to confirm that students agree to the terms of the laptop policy. The following are the components of the Examination Agreement:

- 1.** I elect to write one or more of my law examinations using a laptop with the approved McGill University software during the examination period. I recognize that this is a third-party application, and that neither McGill University nor the Faculty of Law is responsible for its proper functioning.
- 2.** I confirm that my personal laptop meets the minimum requirements (as stipulated in the Faculty of Law – Laptop Exam Student section of the myCourses course Law-Law-Student Affairs-Examinations) for the laptop exam pilot project. My laptop has access to the McGill wireless network. Once I have completed this agreement, I will download and install the University-approved software on my laptop. I will follow the tutorial and test the software on my laptop within the stated deadlines.
- 3.** If my laptop fails during the exam (e.g., a computer crash), I agree to continue and finish the exam by handwriting it. I understand that I will not be granted additional time to resolve the computer problems during the exam. If the incomplete examination cannot be retrieved from my computer within two working days, the Associate Dean (Academic) will determine remedial options.
- 4.** I understand that, if necessary, ICS staff may be available to troubleshoot any difficulties encountered with the approved software (a third-party

1.7.3 Field Studies

For information on Field Studies, refer to [Study Abroad & Field Studies](#).



Note for Science and B.A. & Sc. students: Please refer to mcgill.ca/science/undergraduate/internships-field/internships.

1.7.4 Mobility Award

The purpose of the Mobility Award is to encourage students to study abroad as part of their McGill degree program by defraying part of the cost of this experience. Complete information on this award is available on the [McGill Abroad](#) website.

1.7.5 Study Abroad Opportunities

For information on Study Abroad, refer to [Study Abroad & Field Studies](#) > [Undergraduate](#) > [section 12.1: Opportunities for Field Study and Study Abroad](#), or see mcgill.ca/mcgillabroad.

1.8 Scholarships and Student Aid

The Scholarships and Student Aid Office offers a complete range of merit and need-based awards for entering and in-course undergraduate students. As well, the office administers all federal, provincial, and U.S. government student aid programs. For information and links to government websites as well as comprehensive information concerning all undergraduate awards appearing in the *Undergraduate Scholarships and Awards Calendar*, see [Scholarships and Student Aid](#).

1.8.1 Entrance Awards for McGill Students

Undergraduate Entrance Scholarships are available to students entering McGill University for the first time in a full-time undergraduate degree program.

You should consult mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships for details. Highlights include:

- Entrance Scholarships are entirely merit-based; financial need is not considered.
- Value ranges from \$3,000 to \$12,000.
- There are two types: the One-Year, where eligibility is based solely on academic achiev

- Most undergraduate scholarships and awards are granted on the basis of the combined GPA for the Fall and Winter terms (i.e., your sessional GPA), or a ranking in the top 1 to 5% of the faculty, subject to the faculty's budget. Applications are not required unless specifically indicated in the terms of an award.
- To be considered for in-course awards, you must complete at least 27 graded credits in the regular academic year unless otherwise stated by your Faculty. Courses completed under the Satisfactory/Unsatisfactory (S/U) option, and Summer courses, are not considered. Program content and number of credits may also be considered.



Note: Due to COVID-19 disruptions and increased flexibility for students with regards to the Satisfactory/Unsatisfactory option, the eligibility criteria is temporarily amended exclusively for the 2020-2021 academic year to require **24 graded credits** and maintaining full-time status in each semester (12 graded credits in Fall and 12 graded credits in Winter). If you are registered for only one term you must complete 12 McGill graded credits. More information is available at mcgill.ca/studentaid/scholar

1.9 Graduation

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

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

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- **Winter term graduation** (courses completed by the end of April; transcript will indicate “Degree Granted” in May after approval by the University Senate; diploma will be conferred at Spring convocation): You must apply on Minerva by the end of February.
- **Summer term graduation** (courses completed by the end of August; transcript will indicate “Degree Granted” in October after approval by the University Senate; diploma will be conferred at 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.):



Note: The Faculties of Education, Dentistry, Law, Medicine and Health Sciences, and the School of Nursing, as well as the School of Continuing Studies do not assign the designation of Distinction to graduating students.



Note: The designation of Great Distinction is no longer awarded at graduation. Prior to September 2009, Distinction and Great Distinction were awarded at graduation according to faculty-specific regulations. You can find these rules in the faculty chapters of the *2008–2009 Undergraduate Programs Calendar* or any earlier version at mcgill.ca/students/courses/calendars.

1.9.3.3 Faculty of Science Dean's Multidisciplinary Undergraduate Research List

The Faculty of Science Dean's Multidisciplinary Undergraduate Research List recognizes Bachelor of Science (B.Sc.) and Bachelor of Arts and Science (B.A. & Sc.) students who have participated in substantial and broad undergraduate science research. To be placed on the Faculty of Science Dean's Multidisciplinary Undergraduate Research List at graduation time:

- you must have completed at least 9 credits of research-based courses, taken for a letter grade;
- where qualifying courses are either specified in the list of approved science research courses (see mcgill.ca/science/research/undergraduate-research/researchcourses);
- or are pre-approved by the Faculty of Science, for other undergraduate science research courses.

Furthermore, considering all qualifying science research-based courses on your transcript at graduation time:

- at least one course, worth at least 3 credits, must be from a different unit than the other research-based courses; and
- every qualifying course must have been completed with a grade of C or above; and
- the average GPA over all qualifying courses must be 3.0 or above.

If these requirements are met, the mention “Dean's Multidisciplinary Undergraduate Research List” will be recorded on your transcript at graduation time.

Application

No application is necessary if you have taken courses from the approved list; all B.Sc. and B.A. & Sc. graduating students' records are considered by the Faculty of Science.

In exceptional circumstances, if you have taken a science research course *not* already on the approved list and wish for this course to be counted toward the Dean's Multidisciplinary Undergraduate Research List, you must apply. A qualifying course involves a science research project as its primary focus, culminating in a substantive written report. **Ineligible** courses include: reading courses; BASC 396 and BASC 449; and courses offered by the Faculty of Arts. For information on how to apply, please contact your advisor in the Science Office for Undergraduate Science Advising at least four months prior to graduation (e.g., February 1, for June graduation; July 1, for November graduation; August 1, for February graduation).

1.9.3.4 Honours and First-Class Honours for Faculties of Arts and Science (including B.A. & Sc.)

As a graduating student registered in an Honours program, you may be recommended for *Honours* or *First-Class Honours* by your department(s) to the Faculty, under the following conditions only:

- you must ~~complete all requirements imposed by the department~~
- for *Honours*, the CGPA at graduation must be at least 3.00
- for *F*

1.9.4 Replacing a Diploma

1.9.4.1 Required Documents

Diplomas are normally distributed to new graduates at their Convocation ceremony, in either May or November. **Diplomas are not available prior to your Convocation date.**

Replacing a lost diploma

To replace a lost diploma, you must submit a request via [Service Point Checkout](#), provide the requested personal and program details, upload a government-issued photo ID and pay the replacement fee.

Requesting a diploma following your Convocation ceremony

If you didn't attend your Convocation ceremony and need to obtain your diploma, you can submit a request via [Service Point Checkout](#) and pay the requisite fees to have your diploma mailed or prepared for pick up.

Modifying the name on your diploma

If you have had a name change after graduation, and need to obtain a replacement diploma with your new name, you must first follow the steps to [request a name change](#) by completing and signing a [Personal Data Change Form](#) and submitting the [requisite supporting documentation](#). Once you have received

A degree with Aegrotat Standing is rarely granted at McGill University. A formal request must be submitted to the Dean of the student's faculty and the Deputy Provost, Student Life and Learning, to approve granting a degree with Aegrotat Status.

1.10 Admission to Professional and Graduate Studies

If you intend to proceed into Dentistry, Law, or Medicine, consult the faculties concerned about their prerequisites for admission.

1.11 Undergraduate Advising

McGill offers students access to a variety of advisers, mentors and counsellors with different skills, expertise, and levels of authority. To help determine whether you need to speak to a faculty adviser, departmental/school adviser, professor/lecturer, or peer adviser, see [section 1.11.1.6: The Role of Student Advising](#) and [section 1.11.2: Types of Advising and Advisers](#)

your degree or diploma requirements. It is your responsibility to learn the rules and regulations of the University, your faculty, and your program. With your collaboration, your academic advisers can assist you throughout your undergraduate studies.

1.11.2 Types of Advising and Advisers

While at McGill, you have access to academic advisers who have different skills, expertise, and levels of authority. Your academic advisers can help you succeed academically by providing timely, accurate, and coherent information about University regulations and program requirements and by working, as appropriate, with other University services and resources to help support you throughout your degree. All conversations with your academic advisers are confidential. The main types of advisers are described below. You should refer to your faculty's section of this publication for additional advising information specific to your degree program and to the [Advising website](#) for more general information. Note that some academic matters require approval of more than one adviser, e.g., the faculty adviser and the department/school academic adviser.

Faculty Advisers are normally located in the Student Affairs Office of each faculty and are available throughout the calendar year ([section 1.11.3: Contact Information for Faculty & School Student Affairs Offices](#)).

Faculty advisers:

- are experts in the rules, regulations, and requirements pertaining to specific degree programs;
- provide ongoing advice and guidance on program selection, course registration, credit load, deadlines, and majors and minors;
- communicate with other advisers within the University and, with your permission, serve as a direct link to other University resources;
- may assist you in planning for, and applying to, university exchange programs and may also provide, or direct you to, information about scholarships, awards, research fellowships, and opportunities within a given field;
- are a valuable source of information about the various resources available at McGill;
- offer support, guidance, and appropriate referrals to help you manage academic situations during periods of personal, financial, or medical difficulties, and work with you to identify various possibilities and strategies for making informed decisions.

Department/School Academic Advisers are normally located close to the offices of professors in your program and may only be available during specific times of the year (e.g., prior to registration for the next session or during the add/drop period) or during regularly scheduled office hours. If you are completing a major or minor in more than one unit, you will likely have an adviser in each unit. The departmental academic adviser may be either a professor or a member of the administrative staff. You should contact your department's administrative office to determine the identity and availability of your academic adviser. You should check your progress with your departmental academic adviser from time to time—and certainly before your final year.

Departmental academic advisers:

- guide you through course selection to meet the subject matter requirements of the major or minor;
- consider requests for course equivalencies, recommend prior approval for inter-university transfer credits, or explain the rationale for the design of a department/school program;
- may assist you in planning for, and applying to, university exchange programs, and may also provide, or direct you to, information about scholarships, awards, research fellowships, and opportunities within a given field;
- are a valuable source of information about the various resources available at McGill;
- can provide support, guidance, and appropriate referrals if you experience academic or personal difficulties while studying at McGill;
- are often responsible for confirming that you have met major or minor program requirements for graduation.

Professors/Lecturers may act in a voluntary capacity to mentor you as you progress through your program. The faculty adviser or department/school academic adviser may be able to help you identify a good resource person in your program.

Professors/lecturers:

- may provide advice on the latest trends in a specific field of study and make recommendations on related advanced readings;
- may discuss opportunities for a student research experience and help you connect with a professor or lecturer who best suits your interests or learning style;
- refer you back to the faculty adviser or departmental academic adviser for signatures and permission related to program requirements.

Peer Advisers are students who have been trained by faculty advisers or department/school academic advisers. They normally offer drop-in hours for advice on University life and will help you find the information you need in this publication or through other University resources. Peer advisers are only available in some faculties or departments.

1.11.2.1 Related Resources

For a full list of services available to undergraduate students, please refer to [section 1.13.3: Student Services – Downtown Campus](#) and [section 1.13.4: Student Services – Macdonald Campus](#).

Ask an Advisor (mcgill.ca/students/advising) is an advising and referral resource for undergraduate students in all faculties. If you don't know who to contact with your advising questions or what your next step should be, Ask an Advisor can help by sending you to the right person or place the first time.

Campus Life & Engagement (CL&E) (Brown Student Services Building; mcgill.ca/firstyear) can help new students navigate their way through this publication and the information provided to new students; see mcgill.ca/accepted. The CL&E staff are always available to provide advice and referrals to the many support mechanisms at McGill.

The Student Wellness Hub (Brown Student Services Building; mcgill.ca/wellness-hub) has professional counsellors, social workers, and psychologists who are available to discuss personal, academic, and career goals or problems. They provide individual counselling, therapy, psychoeducational workshops, and crisis intervention. Drop-in services are available. Additionally, **Local Wellness Advisors** can be accessed throughout faculties and services across campus, and they offer support, information, and resources tailored to each faculty and/or student population. Visit

Note: Y

Faculty of Science, incl. School of Computer Science

Science Office for Undergraduate Student Advising (SOUSA)

Telephone: 514-398-5442

Email: newstudentadvising.science@mcgill.ca for newly admitted students only

Email: advisor.science@mcgill.ca

Website: mcgill.ca/science/undergraduate

Students in U1 or above should also see the contact information for departmental academic advisers at mcgill.ca/science/undergraduate/advice/program-advisers.

1.11.4 Contact Information for Departments, Schools, and Programs

Please refer to mcgill.ca/faculties to view websites and contact information for a faculty's specific department, school, or program representatives.

1.11.5 Prospective Students

For information about opportunities for undergraduates at McGill, please visit the Undergraduate Admissions website.

1.11.5.1 Student-for-a-Day Program

If you visit our **Downtown campus** in October/November (Fall term) or February/March (Winter term), you can choose to sit in on a class that is open to visitors and experience McGill from a student's perspective.

For details and a list of available courses, please contact the Welcome Centre (514-398-6555; welcome@mcgill.ca). Tours of the downtown campus can be booked through mcgill.ca/undergraduate-admissions/visits/campus-tours.

If you visit our **Macdonald campus**, you can participate in Student-for-a-Day to have the Macdonald experience. For further information, please contact the Macdonald Campus Student Affairs Office (514-398-7925; studentinfo.macdonald@mcgill.ca). Tours can be booked directly at mcgillmind.mcgill.ca/mcgill/campustours and include campus tours, meeting academic advisors, and visiting residences.

1.12 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 le22 Tm(fair)TS8.115 194.582 Tm(al documents)Tj/F1 10 Tf1 0 0 1 67.52 179.499 Tm(•)Tj/F1 8.1 Tf1 0 0 1 81.693 181.082 Tm(tuition and fees inform

1.12.1 Location

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

1.13 Student Services

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

1.13.1 Office of the Senior Director, Services for Students

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

For information, contact:

Telephone: 514-398-8238
 Website: mcgill.ca/studentsservices

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

1.13.2 Support for Students: Office of the Dean of Students

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

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

For information, contact (Dean/Associate Dean):

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

1.13.3 Student Services – Downtown Campus

Unless otherwise indicated, all **Student Services** on the Downtown campus are located in the William and Mary Brown Student Services Building:

Brown Student Services Building, Suite 4100
 3600 McTavish Street
 Montreal QC H3A 0G3
 Email: student.services@mcgill.ca
 General Information: 514-398-8238
 Website: mcgill.ca/studentsservices

A list of services available is given below. For further information, see the [Student Services website](#). This list also includes services offered by McGill offices external to the Student Services office.

- [section 1.13.3.1: Campus Life & Engagement \(CL&E\)](#)
- [section 1.13.3.2: Career Planning Service \(CaPS\)](#)
- [section 1.13.3.3: First Peoples' House](#)
- [section 1.13.3.4: International Student Services \(ISS\)](#)

- *section 1.13.3.5: Office of Religious and Spiritual Life (MORSL)*
- *: #unique_297*
- *section 1.13.3.7: Office for Students with Disabilities (OSD)*
- *: #unique_299*
- *section 1.13.3.9*

1.13.3.6 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: mcgill.ca/osvrse

1.13.3.7 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 - Downto

Macdonald Campus
Telephone: 514-398-7992 (Mac)
Website: mcgill.ca/osd

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

1.13.4.4 Office of Religious and Spiritual Life (MORSL)

MORSL provides students with trusted resources to explore faith and spirituality, and offers non-denominational educational and de-stress activities. MORSL also connects students with faith communities both on campus and around the city.

Contact via email: morsl@mcgill.ca

1.13.4.5 Student Wellness Hub

The Student Wellness Hub provides physical and mental health and wellness resources in one space to all McGill students who pay the Student Services fee. Access doctors, nurses, counsellors, access advisors, dietitians, psychiatrists (by referral only), and lab technicians, as well as information, support, and programming through the Healthy Living Annex. Drop-in appointments are also available on a first-come first-served basis.

Macdonald Campus
Centennial Centre, room 124
Telephone: 514-398-7992
Website: 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: mcgill.ca/wellness-hub/

1.13.4.6 Scholarships and Student Aid

Information and assistance is available at the Student Wellness Hub 4.)4j1 0 0 1 170.417n Sy ree spaceLond Tm(IBcesar(a,n, support, and)Tj0 Tw30 071 261.9campus 443.32 T

Telephone: 514-398-7059 (for an appointment)

Website: mcgill.ca/ombudsperson

1.13.6 Extra-Curricular and Co-Curricular Activities

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

- Athletics and recreation sports clubs
- Charity and Environmental clubs
- Community Outreach and Colunteering clubs
- Fine Art, Dance, and Performance clubs
- Health and Wellness clubs
- Languages and Publications clubs
- Leisure Activity and Hobby clubs
- Networking and Leadership Development clubs
- Political and Social Activism clubs
- Religion and Cultural clubs

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

1.13.6.1 University Centre, Thomson House, and Centennial Centre

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

On the Macdonald campus, facilities are located in the [Centennial Centre](#); a list of student services and activities on the Macdonald campus is available at [Agricultural & Environmental Sciences > Undergraduate > About Agricultural and Environmental Sciences \(Undergraduate\) > section 2.4.5: Student Information](#).



Note: Space and room availability on campus varies seasonally and depending on university and public health guidelines; please refer to each building's website for more information.

1.13.7 Bookstore

1.13.7.1 Downtown Campus

The *Le James* – McGill Bookstore sells a full range of books for the academic and professional community, stationery supplies, McGill clothing, and gift items. Visit the *Le James* website to sign up for the newsletter so you are the first to know about services, promotions, store hours, and so much more. The *Le James* [online store](#) is open year-round, and you can shop 24/7 from the comfort of your home.

Main Store:

680 Sherbrooke Street West

Website: lejames.ca

1.13.7.2 Macdonald Campus

Located on the main floor of the Centennial Centre, the Mac Campus Bookstore carries textbooks and course materials for Macdonald Campus classes. McGill and Macdonald clothing and insignia items are also available. Shop online 24/7 at lejames.ca.

Mac Campus Bookstore

Macdonald Campus Centennial Centre

21111 Lakeshore Road, Sainte-Anne-de-Bellevue

Website: lejames.ca

1.13.7.3 Institutional Sales Department

The Institutional Sales Department (formerly the McGill Computer Store; MCS) is dedicated to the support and success of the McGill community. We are committed to the mission of

Institutional Sales

Website: lejames.ca/institutional

1.13.8 Day Care

The McGill Childcare Centre (CPE McGill) is an independently run centre that can accommodate 110 children, ranging in age from four months to five years. Applications are to be submitted at www.laplace0-5.com; early application is required as placement is limited.

The Centre is located at:

3491 Peel Street

Montreal QC H3A 1W7

Telephone: 514-398-6943

Website: mcgill.ca/daycare

A Campus Day Care Centre, located adjacent to the McGill University Centre, is an independently run centre that can accommodate 110 children, ranging in age from four months to five years.

- The four co-ed traditional-style **Bishop Mountain Residences** (Gardner, McConnell, Molson, and Douglas Halls) are located on the slope of Mount Royal and overlook the campus.
- **Royal Victoria College** (RVC), which has one all-female and one co-ed wing, is a traditional-style residence located one block from the McGill gates.
- The co-ed hotel-style **New Residence Hall** is located five short blocks from the campus.
- **University Hall** is a co-ed traditional-style dorm located directly across from the Milton Gates to campus.
- **Carrefour Sherbrooke** is a co-ed hotel-style residence located two blocks from campus.
- **La Citadelle** is the newest fully renovated hotel-style residence building, located two blocks east of McGill campus.

Residents of traditional or hotel-style residences have compulsory meal plans and access to multiple cafeterias.

Rooms in traditional-style residences—the Bishop Mountain Residences, University Hall, and RVC—are mostly single occupancy. The hotel-style residences—La Citadelle, Carrefour Sherbrooke and the New Residence Hall—have mostly double rooms. Regardless of the residence style, each student gets a bed, desk, desk lamp, chair, dresser, closet, and small fridge (one fridge per double room).

1.14.1.7 Student Government

Each hall has a Residence Council, elected at the start of the academic year. It is the job of the council to gather hall opinions, supervise financial affairs, and organize recreational and social activities within the residences. McGill's residences are run for the convenience and advantage of the students living in them. Residence Councils play a significant role in deciding and administering their community standards.



Note: Residence fees include an activity fee of \$25 collected by the University on behalf of the Residence Council of each hall and the Inter-Residence Council. These funds comprise each Council's budget with which to plan activities for the hall and across residences.

1.14.2 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: mcgill.ca/students/housing/residence-options/macdonald

Residence life is an integral part of Macdonald Campus activities.

- **Laird Hall**

- small groups and one-on-one training spaces
- gender-neutral changing spaces and bathrooms

McGill students can participate in instructional, recreational, intramural, and intercollegiate activities, as well as sports clubs.

Email

All students are assigned a McGill email address (usually in the form of *firstname.lastname@mail.mcgill.ca*) and given a McGill email mailbox. Please refer to [section 1.1.8.5: Email Communication](#) for further information on email services.

MS Teams

[Microsoft Teams](#) is the recommended application for conducting virtual meetings, audio and video calls, text messaging, and filesharing among McGill students, faculty, and staff members.

OneDrive

Students are given 1 Terabyte of free [file storage space](#) on the Microsoft 365 cloud where you can store and share documents.

Microsoft Office and 365 apps

As a student you can download and install the entire [Microsoft Office ProPlus](#) suite (Word, Excel, PowerPoint, OneNote etc.) to your personal devices, and sync your files with the online versions in OneDrive.

Other Microsoft 365 apps include Forms (surveys and data collection), Sway (interactive online presentations), Stream (video streaming platform), and more. Find out about all the Microsoft 365 apps at mcgill.ca/it/explore-services/o365.



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

1.16.3 Online Course Materials and Lecture Recordings

Sign in to [myCourses](#) for your online assignments, reading materials & syllabus. Many course lectures are recorded for streaming playback on demand.

[Zoom](#) is the cloud-based tool used for attending remote classes when on-campus classes are not available.

See the [Teaching & Learning Services website](#) for more information.

1.16.4 Minerva

Minerva is McGill's web-based information system serving applicants, students, staff, and faculty. To access Minerva, go to mcgill.ca/minerva and log in with your McGill username and password or with your McGill ID and Minerva PIN. Once logged in, you can:

- Apply to McGill and view your application status
- View class schedules, including course descriptions and spaces available in course sections
- Register and make course changes
- Change your major or minor program (not all faculties)
- View your unofficial transcript and degree evaluation reports
- View your McGill Username, used to access computers on campus, WiFi, Email, Office 365, campus printing, and more
- View your Permanent Code, citizenship, and Quebec residency status and fee information
- Update personal information such as address, telephone number, and emergency contacts
- Update your preferred first name
- Submit an online course evaluation
- Submit an application to participate in an exchange program (not all faculties)
- Apply to graduate
- View all S Tf1 0 0 1 81.693 299.972 Tm(Update pandyn(surv)Tj1 0 0693141 0 0 1 81.69tion)Tj/F1 10 na7021 0 0 1 81.69o0 1 220detmorTm(•)Tj/F1 8.1 Tf1 0 0

Visit mcgill.ca/cybersafe for tools and resources to secure your student journey at McGill.

1.17 Resources for Study and Research

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

1.17.1 Libraries

The McGill Library system provides access to [over 9 million items](#), both in print and electronic formats, and consists of multiple branches, the McGill University Archives, and the McGill University Visual Arts Collection. Visit mcgill.ca/library/branches for a map of all our locations, and bring your McGill ID card if you wish to borrow physical items from Library collections. Access to our electronic resources (e-books, e-journals, databases, etc.) is possible anytime and anywhere. You will be prompted to enter your McGill username and password when accessing our e-resources from off campus.

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

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

Most libraries are open up to 90 hours per week, and several branch libraries extend [opening hours](#) during exam periods. The Library offers a variety of comfortable and attractive study spaces. Visit [study spaces](#) for more information. The Library also offers a variety of [e-books](#) and [e-journals](#).

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

Graduate Courses:

Course Number	Course Title	Credits
CEAP 642	Cornerstones of Academic Writing	1
CEAP 652	Fundamentals of Academic Presentations	1
CEAP 661	Literature Review 1: Summary and Critique	1
CEAP 665	Literature Review 2: Establishing Scholarly Niches	1
CEAP 671	Selected Topics in Communication 1	1
CEAP 672	Selected Topics in Communication 2	1
CEAP 676	Thesis Writing Lab	1

McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-7109

Inquiries concerning CCOM 206, CESL 299, CESL 631, and CESL 651 should be directed to:

Ross Sundberg
Email: ross.sundberg@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-3320

Inquiries concerning CCOM 200 should be directed to:

Sarah Wolfson
Email: sarah.wolfson@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-7109

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

Pamela Lamb
Email: pamela.lamb@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-7109

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

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

Administrative inquiries should be directed to:

mwc@mcgill.ca for undergraduate courses
graphos@mcgill.ca for graduate courses

1.17.3 University Archives

The McGill University Archives (MUA) acquires, preserves, and makes available to students, faculty, staff and researchers (including the general public) more than 30,000 metres of records dating from 1797 to the present. These records document McGill University faculty, research, alumni, and student organizations, and certain Montreal-based organizations. Archived media include:

- textual records;
- photographs;
- audio tapes;
- film;
- video;
- plans;
- University publications;
- artifacts.

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

The MUA Reading Room is open Monday to Friday, from 10:00 a.m. to 6:00 p.m.; however, appointments are recommended. The MUA website features virtual exhibitions, tools to search the MUA holdings, and a large bank of digitized images.

McGill University Archives
McLennan Library Building, 4th Floor
3459 rue McTavish
Montreal QC H3A 0C9
Telephone: 514-398-4711
Email: refdesk.archives@mcgill.ca
Website: mcgill.ca/library/branches/mua

1.17.4 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 staf

1.18 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.

1.18.1 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'."

United Theological College of Montreal

3521 University Street, Montreal QC H3A 2A9

Principal: Rev. Maylanne Maybee; B.A.(Tor.), Dip.Theol., Cert.Ed.(Oxon), M.Div.(Trin. Coll., Tor.)

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

1.18.3 University Government

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

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

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

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

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

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

1.18.4 Recognition of Degrees

The Royal Institution for the Advancement of Learning (McGill University) is a publicly funded institution and holds a Royal Charter dated 1821 (amended in 1852) as well as being incorporated under the laws of the Province of Quebec.

McGill University was a founding member of the organization that evolved into Universities Canada and remains an active member university to this day. In addition, McGill University is a member of the American Association of Universities (A.A.U.). It is also a member of the Association of Commonwealth Universities and the International Association of Universities. Its undergraduate, professional, and graduate degrees, including doctorates in a full range of disciplines, have been recognized by educational, government, and private or

1.18.5.2.1 Members

Members

Bob Babinsky; B.A.(McG.)

Maryse Bertrand; B.C.L.(McG.), M.Sc.(NYU), Ad. E.

Michael T. Boychuk; B.Com.(McG.)

Peter Coughlin; B.Com.(Car.), M.B.A.(W. Ont.)

Alan Desnoyers; B.Com.(McG.)

Claude G n reux; B.Eng.(McG.), M.A.(Oxf.)

Lucy Gilbert; M.D., M.Sc., F.R.C.O.G.

Stephen Halperin; B.C.L./LL.B.(McG.)

Fred Headon; B.A.(Winn.), B.C.L./LL.B.(McG.)

Inez Jabalpurwala; B.A., M.A., M.B.A., M.M.(McG.)

Ehab Lotayef; B.Eng.(Ain Shams)

Pierre Matuszewski; B.A.(Laval), M.B.A.(McG.)

Samuel Minzber

Administration

Line Thibault;

General Counsel and Director of Legal Services

Giovanna Santullo; B.Com., Gr. Dip.(C'dia)

Executive Director, Internal Audit

1.18.7.1 Deans, Directors of Schools and Libraries

1.18.7.1.1 Deans

Deans

Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)

Agricultural & Environmental Sciences

Antonia Maioni; B.A.(Laval), M.A.(Car.), Ph.D.(N'western)

Arts

Carola Weil; B.A.(Bryn Mawr), M.A., M.P.M., Ph.D.(Md.)

Continuing Studies

Elham Emami; D.D.S.(Tehran), M.Sc., Ph.D.(Montr.)

Dentistry

Dilson Rassier; B.Sc.(UFPel, Brazil), M.Sc.(UFRGS), Ph.D.(Calg.)

Education

James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.

Engineering

Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)

Graduate & Postdoctoral Studies

Robert Leckey; B.A.(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 Bajoux-Besnainou; Degree(ENS Paris), M.Sc.(Paris VI & Paris IX),
Doctorate(Paris IX)

Management

David Eidelman; M.D.,C.M.(McG.), FRCPC, F

Medicine and Health Sciences

the Downtown campus. There is a *Legislative Council* that meets with representati

and EndNote. Printer-photocopiers, comfortable seating, three group study rooms equipped with LCD monitors, and a 24-hour study area are also available to you.

Librarians specializing in specific subject areas are available to help you find information for your course assignments or research topics, either in person or by phone, email, or chat. Research w

The Macdonald Campus is an e

2.4.5.1 Student Rights and Responsibilities

The regulations and policies governing student rights and responsibilities at McGill University are published jointly by the Dean of Students' Office and the Secretariat and can be found at mcgill.ca/secretariat/policies-and-regulations.

2.4.5.2 The Student Affairs Office

The Student Affairs Office, located in Laird Hall, Room 106, provides a wide variety of academic services. These include information about admission (prerequisites and program requirements), transfer credits, Academic Standing, examinations (deferrals, conflicts, rereads), exchange programs, interfaculty transfers, program changes, registration (course change, withdrawals), scholarships (entrance and in-course), second degrees, second majors, minors, study away, and graduation (convocation).

Website: mcgill.ca/macdonald/studentinfo/sao

2.4.5.3 Student Services

Information is also available on our website: mcgill.ca/macdonald-studentservices.

of your course selection and registration, for compliance with, and completion of your program and degree requirements, and for the observance of regulations and deadlines, *rests with you*. It is your responsibility to seek guidance if in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

2.4.6.1 Minimum Credit Requirement

You must complete the minimum credit requirement for your degree as specified in your letter of admission.

Students are normally admitted to a four-year program requiring the completion of 120 credits, but Advanced Standing of up to 30 credits may be granted if you obtain satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement tests.

Normally, Quebec students who have completed the *Diplôme d'études collégiales* (DEC) or equivalent diploma are admitted to the first year of a program requiring the completion of a minimum of 90 credits, 113 credits for Bioresource Engineering, 115 credits for Dietetics, and 122 credits for the Concurrent Degrees in Food Science and Nutritional Sciences, including any missing basic science prerequisites.

Students from outside Quebec who are admitted on the basis of a high school diploma enter the Freshman Major, which comprises 30 credits (see [section 2.6.1: Freshman Major](#) in this publication).

You will not receive credit toward your degree for any course that overlaps in content with a course successfully completed at McGill, at another university, at CEGEP, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate.

Students transferring from another university must complete a minimum of 60 McGill credits in order to receive a McGill degree.

If you are a student in the B.Sc.(Ag.Env.Sc.) and in the Diploma in Environment (AES), you must take a minimum of two-thirds of your course credits within the Faculty of Agricultural and Environmental Sciences.

2.4.6.2 Minimum Grade Requirement

You must obtain grades of C or better in any required, complementary, or Freshman courses used to fulfil program requirements. You may not register in a course for which you have not passed all the prerequisite courses with a grade of C or better, except by written permission of the Departmental Chair concerned.

2.4.6.3 Academic Advisers

Upon entering the Faculty and before registering, you must consult with the academic adviser of your program for selection and scheduling of required, complementary, and elective courses. The academic adviser will normally continue to act in this capacity for the duration of your studies in the F, and electives in 6.9 Tm

7. Students in the School of Human Nutrition have additional standards in place for the professional program (Dietetics). See [section 2.6.5.1: Bachelor of Science \(Nutritional Sciences\) \(B.Sc.\(Nutr.Sc.\)\) - Major Dietetics \(115 credits\)](#).

2.4.6.5.1 Committee on Academic Standing

The Faculty's Committee on Academic Standing, consisting of academic staff, administrative staff, and a student representative, reviews special requests made by students reg

2.4.6.9 Course Change Information

- 1. Courses:** please refer to [University Regulations and Resources](#) > [Undergraduate](#) > [Registration](#) > [section 1.3.3: Course Change Period](#), and the [Important Dates website](#).
- 2. Course withdrawal** (Transcript notation of “W”): please refer to [University Regulations and Resources](#) > [Undergraduate](#) > [Registration](#) > [section 1.3.3.1: Course Withdrawal](#), and the [Important Dates website](#).
- 3. Other changes:** information about changes may be obtained from the Student Affairs Office of the Faculty.

2.4.6.10 Graduate Courses Available to Undergraduates

Undergraduates who want to take graduate courses must have a cumulative grade point average (CGPA) of at least 3.20. Final approval must be obtained from Enrolment Services. Be advised that graduate courses taken for credit toward an undergraduate degree will not be credited toward a graduate program.

Please see a Faculty Advisor in the [Student Affairs Office](#), Laird Hall, 106 for more information.

2.4.6.11 Attendance and Conduct in Class

Matters of discipline connected with, or arising from, the general arrangement for teaching are under the jurisdiction of the Dean of the Faculty.

Students may be admonished by a professor or instructor for dishonest or improper conduct. If disciplinary action is taken, students may be admonished by a professor or instructor for dishonest or improper conduct. If disciplinary action is taken, students may be admonished by a professor or instructor for dishonest or improper conduct.

2.5 Overview of Programs Offered

The Faculty of Agricultural and Environmental Sciences and the School of Human Nutrition offer degrees, certificates, and diplomas in:

- Bachelor of Engineering (Bioresource Engineering)
- Bachelor of Science (Agricultural and Environmental Sciences)
- Bachelor of Science (Food Science)
- Bachelor of Science (Nutritional Sciences)
- Concurrent degree in Food Science and Nutritional Sciences
- Certificate in Ecological Agriculture
- Certificate in Food Science
- Diploma in Environment
- Diploma of Collegial Studies in Farm Management and Technology

The Faculty of Agricultural and Environmental Sciences is one of the four faculties in partnership with the Bieler School of Environment.

Several programs offered by the Faculty and School can lead to professional accreditation. These include:

- the Agricultural Economics Major and the Agro-Environmental Sciences Major – membership in the *Ordre des agronomes du Québec* and other provincial Institutes of Agriculture;
- Bioresource Engineering – membership as a professional engineer in any province of Canada and the *Ordre des agronomes du Québec*;
- the Dietetics Major – membership in the Dietitians of Canada and the *Ordre professionnel des diététistes du Québec*;
- Food Science – accreditation by the Institute of Food Technologists and professional accreditation by the *Ordre des chimistes du Québec*.

Professional Practice experiences to complete the Dietetics practicum are provided in the McGill teaching hospitals and in a wide variety of health, education, business, gov

2.5.1.2 AGRI 310 Internship in Agriculture/Environment

The objective of AGRI 310 is to give you experience working in an enterprise that is related to your field of study, and to find out how your studies can contribute to your understanding and performance in the workplace environment. The internship should be a minimum length of 12 weeks. Through observations of the enterprise's functioning, the decision-making process, and the economic constraints, you should obtain a better understanding of the technical, economic, and social challenges faced by enterprises in your field of study. AGRI 310 is a 3-credit course.

2.5.1.3 AGRI 410D1 and AGRI 410D2 Agrology Internship

As a qualified student in the B.Sc.(Ag.Env.Sc.), you have the opportunity to participate in a 420-hour-minimum internship related to your field of study.

AGRI 410 is part of the Professional Agrology Specialization and constitutes practical training as required by the *Ordre des agronomes du Québec*. Each internship placement must be approved by the instructor.

2.5.1.4 AGRI 499 Agricultural Development Internship

AGRI 499 is a supervised internship which provides practical experience working on agricultural issues related to international development. The internship can take many forms, including work in a developing country, for an agency that focuses on international development, or on a research project that aims at solving problems faced by developing populations. Each internship placement must be approved by the instructor.

2.5.2 Exchange Programs (Overview)

The Faculty of Agricultural and Environmental Sciences participates in all University-wide student exchange programs available at McGill and also has Faculty-specific exchange programs. For more information, see [Study Abroad & Field Studies > Undergraduate > section 12.4: Exchange Programs](#).

2.5.3 Bachelor of Science in Agricultural and Environmental Sciences – B.Sc.(Ag.Env.Sc.) (Overview)

Students register in one *major* and at least one *specialization*. They may design their own program by choosing any major, and at least one specialization (see notes below for the majors in Environment and specializations in Agricultural Economics). By choosing two different specializations, students have the option of developing their own interdisciplinary interests. They may also choose to do a minor.

two.

Students also have the opportunity to pursue a minor. Several possibilities are: Agricultural Production, Environment, Ecological Agriculture, Biotechnology, Computer Science, Construction Engineering and Management, Entrepreneurship, and Environmental Engineering. Details of some of these minors can be found under [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > section 6.12.10: Minor Programs](#). To complete a minor, it is necessary to spend at least one extra term beyond the normal requirements of the B.Eng.(Bioresource) program.



Note: If you are completing a B.Eng.(Bioresource) degree, you must complete a minimum residency requirement of 72 credits at McGill. The total credits for your program (143 credits) include those associated with the year 0 (Freshman) courses.

See [section 2.6.3: Bachelor of Engineering \(Bioresource\) – B.Eng.\(Bioresource\)](#) for a list of B.Eng.(Bioresource) programs offered.

2.5.5 Bachelor of Science in Food Science – B.Sc.(F.Sc.) (Overview)

Refer to [section 2.6.4: Bachelor of Science \(Food Science\) - B.Sc.\(F.Sc.\)](#) for a full list of B.Sc.(F.Sc.) programs offered.

Food Science

- Food Chemistry Option
- Food Science Option

The Food Science program has been designed to combine the basic sciences—particularly chemistry—with specialty courses that are directly related to the discipline.

For academic advising, please consult mcgill.ca/macdonald/studentinfo/advising.

2.5.6 Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.) (Overview)

Nutritional Sciences Majors

- Dietetics (professional program leading to professional licensing as Dietitian/Nutritionist)
- Nutrition (available in five concentrations):
 - Food Function and Safety
 - Global Nutrition
 - Health and Disease
 - Nutritional Biochemistry
 - Sports Nutrition
- Food Science/Nutritional Sciences (concurrent degree)

Refer to [section 2.6.5: Bachelor of Science \(Nutritional Sciences\) – B.Sc.\(Nutr.Sc.\)](#) for a full list of B.Sc.(Nutr.Sc.) programs offered.

For academic advising, please consult mcgill.ca/macdonald/studentinfo/advising.

Freshman Adviser

Professor Alice Cherestes
Macdonald-Stewart Building, Room 1-020
Telephone: 514-398-7980

2.5.7 Concurrent Bachelor of Science in Food Science – B.Sc.(F.Sc.) and Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.) (Overview)

Please refer to [section 2.6.4.4: About the Concurrent B.Sc.\(F.Sc.\) and B.Sc.\(Nutr.Sc.\)](#) for details.

2.5.8 Honours Programs (Overview)

Honours Programs

- [section 2.6.2.1.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag](#)

- *section 2.6.4.2: Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Honours Food Science - Food Science Option (90 credits)*
- *section 2.6.4.4.2: Concurrent Bachelor of Science in Food Science (B.Sc.(F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc.(Nutr.Sc.)) - Food Science/Nutritional Science Honours (Concurrent) (122 credits)*
- *section 7.7.6.4: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Environment (69 credits), listed under the Bieler School of Environment*

2.5.9 Minor Programs (Overview)

Minor Programs

- *Agribusiness Entrepreneurship – section 2.6.6.2: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Agribusiness Entrepreneurship (18 credits)*
- *Agricultural Economics – section 2.6.6.3: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Agricultural Economics (24 credits)*
- *Agricultural Production – section 2.6.6.4: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Agricultural Production (24 credits)*
- *Animal Biology – section 2.6.6.5: Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Minor Animal Biology (24 credits)*
- *Animal Health and Disease – section 2.6.6.6: Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Minor Animal Health and Disease (24 credits)*
- *Applied Ecology – section 2.6.6.7: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Applied Ecology (24 credits)*
- *Ecological Agriculture – section 2.6.6.8: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Ecological Agriculture (24 credits)*
- *Environmental Engineering – section 2.6.6.9: Minor in Environmental Engineering*
- *Human Nutrition – section 2.6.6.10: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Human Nutrition (24 credits)*
- *International Agriculture – section 2.6.6.11: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag*

a B.A. Faculty Program in Environment, a Minor in Environment, and a Diploma in Environment. These programs allow you to choose to study on both the Macdonald and Downtown campuses.

2.5.13.2 Environmental Programs on the Macdonald Campus

A number of integrated environmental science programs are offered on the Macdonald campus, particularly within the B.Sc.(Ag.Env.Sc.) and B.Eng.(Bioresource) degrees. The objective of these interdepartmental programs is to provide a well-rounded training in a specific interdisciplinary subject as well as a basis for managing natural resources. For a complete list of the programs, see [section 2.5: Overview of Programs Offered](#).

2.5.14 Graduate Programs

Graduate work may be undertaken on the Macdonald Campus, through the following academic units:

- [Animal Science](#)
- [Bioresource Engineering](#)
- [Food Science and Agricultural Chemistry](#)
- [School of Human Nutrition](#)
- [Natural Resource Sciences](#)
- [Institute of Parasitology](#)
- [Plant Science](#)

The advanced courses of study offered lead to the degrees of Master of Science, Master of Science Applied, and Doctor of Philosophy.

Information on these programs and related fellowships is available from the Graduate and Postdoctoral Studies office, Macdonald Campus of McGill University, 21,111 Lakeshore Road, Macdonald-Stewart Building, Sainte-Anne-de-Bellevue QC H9X 3V9 or by contacting gradstudies.macdonald@mcgill.ca.

Further information including full program lists is offered in the Faculty of Agricultural and Environmental Sciences [Graduate and Postdoctoral Studies section](#), and details regarding theses, registration, fellowships, etc., can be accessed at mcgill.ca/gps.

2.6.1.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Freshman Program (30 credits)

(All majors except Agricultural Economics - see Advising Notes below*)

If you are entering university for the first time from a high school system, outside of the Quebec CEGEP system, you will be required to complete a Freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Note: If you are not certain that you have adequate math and/or physics skills to commence the freshman year you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your freshman adviser may recommend that you register for an additional weekly Pre-Calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
		Freshman Seminar 1

Complementary Courses - Winter (6 credits)

One of the following:

BREE 103	(3)	Linear Algebra
NUTR 301	(3)	Psychology

One of the following:

AGEC 201**	(3)	Principles of Macroeconomics
AGEC 231**	(3)	Economic Systems of Agriculture

Advising Notes:

* Freshman students intending to major in Agricultural Economics in the B.Sc. (Ag. & Env. Sci.) degree program should note that the courses AEBI 120 (General Biology), AECH 111 (General Chemistry 2), and AEPH 114 (Introductory Physics 2) are required for all other majors in the B.Sc. (Ag. & Env. Sci.) de

2.6.1.5 Concurrent Bachelor of Science Food Science (B.Sc. (F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc. (Nutr.Sc.)) - Freshman Program (Concurrent) (30 credits)

These freshman requirements apply to students in the Concurrent Bachelor of Science Food Science (B.Sc. (F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc. (Nutr.Sc.)) degree program.

If you are entering university for the first time from a high school system (outside of the Quebec CEGEP system), you will be required to complete a Freshman year of at least 30 credits as listed below.

Normally, students registered in the Faculty of Agricultural and Environmental Sciences Freshman program may take a maximum of 8 credits outside the Faculty offerings to meet the requirements of the program. Permission to exceed this limit must be received from the Associate Dean (Student Affairs) prior to registration.

Note: If you are not certain that you have adequate math and/or physics skills to commence the Freshman year, you may wish to take preparatory courses prior to the normal Fall semester. You are encouraged to discuss your potential need with your academic adviser. Mathematical skill level will be determined during the first week of classes. Your freshman adviser may recommend that you register for an additional weekly Pre-calculus Lab, of one credit, which may be applied towards the required credits of the degree program.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses - Fall (14.5 credits)

AEBI 120	(3)	General Biology
AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGRI 195	(.5)	Freshman Seminar 1

Required Courses - Winter (15.5 credits)

AEBI 122	(3)	Cell Biology
AEMA 102	(4)	Calculus 2
AEPH 114	(4)	Introductory Physics 2
AGRI 196	(.5)	Freshman Seminar 2
FDSC 230	(4)	Organic Chemistry

2.6.2 Bachelor of Science (Agricultural and Environmental Sciences) – B.Sc.(Ag.Env.Sc.)

Please refer to [section 2.5.3: Bachelor of Science in Agricultural and Environmental Sciences – B.Sc.\(Ag.Env.Sc.\) \(Overview\)](#) for general rules and other information regarding B.Sc.(Ag.Env.Sc.) programs.

2.6.2.1 B.Sc.(Ag.Env.Sc.) Major and Honours Programs

The faculty offers the following B.Sc.(Ag.Env.Sc.) Major and Honours programs.

The Bieler School of Environment also offers several B.Sc.(Ag.Env.Sc.) programs; for more information, please visit [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#) and [section 7.7.6: Honours Program in Environment.](#)

2.6.2.1.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Agricultural Economics (42 credits)

Program Director: Professor Paul Thomassin411 258sit

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGEC 320	(3)	Intermediate Microeconomic Theory
AGEC 330	(3)	Agriculture and Food Markets
AGEC 332	(3)	Farm Management and Finance
AGEC 333	(3)	Resource Economics
AGEC 425	(3)	Applied Econometrics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
ENVB 210	(3)	The Biophysical Environment
MGCR 211	(3)	Introduction to Financial Accounting

Complementary Courses (6 credits)

With the approval of the Academic Adviser, one introductory course in each of the following areas:

Statistics

Written/Oral Communication

Specialization (24 credits)

Specializations designed to be taken with the Agricultural Economics Major:

Students taking the Major in Agricultural Economics must take one of the following specializations:

- Agribusiness (24 credits)

- Environmental Economics (24 credits)

Students who take the Specialization in Agribusiness can also take the Specialization in Professional Agrology for Agribusiness (24 credits). Membership to the OAQ requires successful completion of the Agribusiness and Professional Agrology for Agribusiness specializations.

Note: For a complete list of specializations offered for students in the Bachelor of Science in Agricultural and Environmental Sciences, please refer to "Browse Academic Units & Programs > Bachelor of Science (Agricultural and Environmental Sciences) - B.Sc.(Ag.Env.Sc.) > Specializations", in this eCalendar.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.1.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Agricultural Economics (42 credits)

This program is currently not offered.

Program Director: Professor Paul Thomassin

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

In addition to satisfying the research requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to ensure that all requirements are met by the deadline.

Required Courses (33 credits)

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGEC 320	(3)	Intermediate Microeconomic Theory
AGEC 330	(3)	Agriculture and Food Markets
AGEC 333	(3)	Resource Economics
AGEC 425	(3)	Applied Econometrics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 491	(3)	Research and Methodology
ENVB 210	(3)	The Biophysical Environment

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

Two 6-credit Honours research courses in the subject area of the student's major, chosen in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

FAES 401	(6)	Honours Research Project 1
FAES 402	(6)	Honours Research Project 2

Honours Plan B

A minimum of two 3-credit Honours courses and 6 credits in 400- or 500-level courses, from the Faculty of Agricultural and Environmental Sciences, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

FAES 405	(3)	Honours Project 1
FAES 406ses	(3)	Honours Project 2

To meet the minimum credit requirement for the degree.

2.6.2.1.3 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Agro-Environmental Sciences (42 credits)

This Major is focused on the idea that agricultural landscapes are managed ecosystems, and that humans engaged in agriculture must maintain the highest possible environmental standards while providing food and other bioproducts to the marketplace. The Major core focuses on the basic and applied biology of cultivated plants, domestic animals, arable soils, and the economics of agriculture. Students then choose one or two specializations in these or connected disciplines that reflect their interests and career goals.

The program has a strong field component that includes hands-on laboratories, visits to agricultural enterprises, and opportunities for internships. Classes and laboratories exploit the unique setting and facilities of the Macdonald Campus and Farm, which is a fully functioning farm in an urban setting that exemplifies many of the issues at the forefront of modern agricultural production. Graduates of this program are eligible to become members of the Ordre des agronomes du Québec (OAQ).

Program Director: Professor Roger Cue

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this eCalendar for prerequisites and minimum credit requirements.

Required Courses (36 credits)

AEBI 210	(3)	Organisms 1
AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGRI 215	(3)	Agro-Ecosystems Field Course
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
SOIL 315	(3)	Soil Nutrient Management

Complementary Courses (6 credits)

6 credits of complementary courses selected as follows:

One of:

PLNT 300	(3)	Cropping Systems
PLNT 302	(3)	Forage Crops and Pastures

One of:

ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production

Specialization

Choose at least one specialization of 18-24 credits.

Specializations designed to be taken with the Agro-Environmental Sciences Major:

- Animal Production
- Ecological Agriculture

- Plant Production
- *Professional Agrology
- Soil and Water Resources

* Membership to the OAQ requires students successfully complete one of the above specializations in addition to the Professional Agrology Specialization.

Electives

To meet the minimum credit requirement for the degree.

2.6.2.1.4 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Agro-Environmental Sciences (54 credits)

Program Director: Professor Roger Cue

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's Major and Specialization.

In addition to satisfying the Honour requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain honours. The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the Honours project activities involved will be documented and signed by the Program Director of the student's Major, the supervisor of the Honours project, and the student.

This Major is focused on the idea that agricultural landscapes are managed ecosystems, and that humans engaged in agriculture must maintain the highest possible environmental standards while providing food and other bioproducts to the marketplace. The Major core focuses on the basic and applied biology of cultivated plants, domestic animals, arable soils, and the economics of agriculture. Students then choose one or two specializations in these or connected disciplines that reflect their interests and career goals.

The program has a strong field component that includes hands-on laboratories, visits to agricultural enterprises, and opportunities for internships. Classes and laboratories exploit the unique setting and facilities of the Macdonald Campus and Farm, which is a fully functioning farm in an urban setting that exemplifies many of the issues at the forefront of modern agricultural production. Graduates of this program are eligible to become members of the Ordre des agronomes du Québec (OAQ).

Program Prerequisites

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this eCalendar for prerequisites and minimum credit requirements.

Required Courses (36 credits)

AEBI 210	(3)	Organisms 1
AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGRI 215	(3)	Agro-Ecosystems Field Course
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
SOIL 315	(3)	Soil Nutrient Management

Complementary Courses (18 credits)

3 credits from the following:

PLNT 300	(3)	Cropping Systems
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PLNT 302 (3) Forage Crops and Pastures

3 credits from the following:

ANSC 451 (3) Dairy and Beef Production Management

ANSC 458 (3) Swine and Poultry Production

Honours Courses

12 credits of Honours Plan A or Plan B

Honours Plan A

Two 6-credit Honours research courses in the subject area of the student's major

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
AEBI 212	(3)	Evolution and Phylogeny
AEHM 205	(3)	Science Literacy
AEMA 310	(3)	Statistical Methods 1
ENVB 210	(3)	The Biophysical Environment
ENVB 222	(3)	St. Lawrence Ecosystems
ENVB 305	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

ENTO 330	(3)	Insect Biology
ENVB 301	(3)	Meteorology

Phylogeny and Biogeography(3)Insect Bio3471.661 Tm(ENVB 301)40.ENVTj1 0c1 0 0 1 70.l.s 0 1 165.864 .((3)40.EN

2.6.2.1.6 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Environmental Biology (54 credits)

Program Director: Professor Joann Whalen

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's Major and Specialization.

In addition to satisfying the Honours requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain honours.

The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the Honours project activities involved will be documented and signed by the Program Director of the student's Major, the supervisor of the Honours project, and the student.

The Environmental Biology Major is about the biology, diversity, and ecology of a broad range of organisms, from plant and vertebrate animals to insects, fungi, and microbes. This Major places a strong emphasis on the ecosystems that species inhabit and the constraints imposed by the physical environment and by environmental change. Environmental Biology has significant field components work

FAES 401	(6)	Honours Research Project 1
FAES 402	(6)	Honours Research Project 2

OR

Honours Plan B

A minimum of two 3-credit Honours courses and 6 credits in 400- or 500-level courses, from the Faculty of Agricultural and Environmental Sciences, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

FAES 405	(3)	Honours Project 1
FAES 406	(3)	Honours Project 2

Specialization (24 credits)

Students must also complete at least one Specialization of 24 credits.

2.6.2.1.9 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Life Sciences (Biological and Agricultural) (42 credits)

The Life Sciences (Biological and Agricultural) Major provides a strong foundation in the basic biological sciences. It will prepare graduates for careers in the agricultural, environmental, health, and biotechnological fields. Graduates with high academic achievement may go on to postgraduate studies in research, or professional programs in the biological, veterinary, medical, and health sciences fields.

Program Director: Professor Jacqueline Bede

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this eCalendar for prerequisites and minimum credit requirements.

Default Specialization: Students who do not select a Specialization will automatically be assigned to the Life Sciences (Multidisciplinary) Specialization upon entering U2.

Required Courses (33 credits)

* Other appropriate Statistics courses may be approved as substitutes by the Program Director.

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
AEBI 212	(3)	Evolution and Phylogeny
AEHM 205	(3)	Science Literacy
AEMA 310*	(3)	Statistical Methods 1
ANSC 400	(3)	Eukaryotic Cells and Viruses
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits of the complementary courses selected from:

ANSC 234	(3)	Biochemistry 2
ANSC 250	(3)	Principles of Animal Science
ANSC 312	(3)	Animal Health and Disease

ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 420	(3)	Animal Biotechnology
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
ENVB 210	(3)	The Biophysical Environment
ENVB 222	(3)	St. Lawrence Ecosystems
FAES 300	(3)	Internship 2
LSCI 451	(3)	Research Project 1
LSCI 452	(3)	Research Project 2
MICR 331	(3)	Microbial Ecology

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Program Prerequisites

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this eCalendar for prerequisites and minimum credit requirements.

Required Courses (45 credits)

* Other appropriate Statistics courses may be approved as substitutes by the Program Director.

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
AEBI 212	(3)	Evolution and Phylogeny
AEHM 205	(3)	Science Literacy
AEMA 310*	(3)	Statistical Methods 1
ANSC 400	(3)	Eukaryotic Cells and Viruses
FAES 401	(6)	Honours Research Project 1
FAES 402	(6)	Honours Research Project 2
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits of the complementary courses selected from:

ANSC 234	(3)	Biochemistry 2
ANSC 250	(3)	Principles of Animal Science
ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
		Dev

PLNT 353	(3)	Plant Structure and Function
PLNT 426	(3)	Plant Ecophysiology
PLNT 435	(3)	Plant Breeding

Specialization

At least one specialization of 18-24 credits from:

Specializations designed to be taken with the Life Sciences (Biological and

3 credits of a course in Animal Production or Plant Production approved by the Adviser.

2.6.2.2.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Animal Biology (24 credits)

The specialization in Animal Biology is intended for students who wish to further their studies in the basic biology of lar

ANSC 251	(3)	Comparative Anatomy
ANSC 303	(2)	Farm Livestock Internship
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 555	(3)	The Use and Welfare of Animals
FAES 371	(1)	Special Topics 01

2.6.2.2.4 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Animal Production (24 credits)

This specialization will be of interest to students who wish to study the improved efficiency of livestock production at the national and international levels. Students are exposed to animal nutrition, physiology, and breeding in a context that respects environmental concerns and animal-welfare issues. When taken in conjunction with) - Animal Pr

MICR 331	(3)	Microbial Ecology
MICR 450	(3)	Environmental Microbiology
PLNT 304	(3)	Biology of Fungi
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
SOIL 326	(3)	Soils in a Changing Environment
SOIL 535	(3)	Ecological Soil Management
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

2.6.2.2.6 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Ecological Agriculture (24 credits)

This specialization focuses on the principles underlying the practice of ecological agriculture. When coupled with the Major in Environmental Biology, agriculture as a managed ecosystem that responds to the laws of community ecology is examined; when combined with the Major Agro-Environmental Sciences and the specialization in Professional Agrology, this specialization focuses more directly on the practice of ecological agriculture and conforms with the eligibility requirements of the Ordre des agronomes du Québec. It is suitable for students wishing to farm and do extension and government work, and those intending to pursue postgraduate work in this field.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (12 credits)

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
SOIL 535	(3)	Ecological Soil Management

Complementary Courses (12 credits)

Minimum of 6 agronomic credits from:

AGRI 310	(3)	Internship in Agriculture/Environment
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANSC 312	(3)	Animal Health and Disease
BREE 327	(3)	Bio-Environmental Engineering
ENTO 352	(3)	Biocontrol of Pest Insects
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 434	(3)	Weed Biology and Control

Other complementary courses:

MICR 331	(3)	Microbial Ecology
NUTR 341	(3)	Global Food Security
PLNT 302	(3)	Forage Crops and Pastures
PLNT 460	(3)	Plant Ecology
WOOD 441	(3)	Integrated Forest Management

2.6.2.2.7 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Environmental Economics (24 credits)

This specialization integrates environmental sciences and decision making with the economics of environment and sustainable development. It is designed to prepare students for careers in natural resource management and the analysis of environmental problems and policies.

This specialization is limited to students in the Major Agricultural Economics.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (12 credits)

AGEC 491	(3)	Research and Methodology
ENVB 305	(3)	Population and Community Ecology
ENVB 437	(3)	Assessing Environmental Impact
ENVB 506	(3)	Quantitative Methods: Ecology

Complementary Courses (12 credits)

12 credits chosen from the following list:

AGRI 310	(3)	Internship in Agriculture/Environment
BREE 217	(3)	Hydrology and Water Resources
BREE 327	(3)	Bio-Environmental Engineering
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 405	(3)	Natural Resource Economics
ENVB 222	(3)	St. Lawrence Ecosystems
ENVB 301	(3)	Meteorology
ENVB 529	(3)	GIS for Natural Resource Management
ENVR 203	(3)	Knowledge, Ethics and Environment
MGPO 440	(3)	Strategies for Sustainability
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
WILD 421	(3)	Wildlife Conservation

2.6.2.2.8 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - International Agriculture (24 credits)

Students enter this specialization to acquire a global and applied understanding of agriculture as a fundamental tool to help rural development, alleviate poverty and reach food security, especially in the developing world. This program provides students with a combination of coursework at McGill together with a hands-on experience in a developing country, meeting locals and attending courses with McGill professors and/or local instructors. The costs of these field experiences may vary. The field experience (semester, short course or internship) includes developing projects in local communities, observing subsistence agriculture in situ and participating in various activities which contribute to sensitizing the students to the challenges that developing countries face. Students study water resources, sustainable development, nutrition, planning and development, and a host of other fascinating topics, allowing them to sharpen their skills for future career opportunities.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (6 credits)

AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture

Complementary Courses (18 credits)

Students select either Option A or Option B.

Option A

18 credits from the following:

AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 325	(3)	Sustainable Agriculture and Food Security
AGRI 499	(3)	Agricultural Development Internship
BREE 510	(3)	Watershed Systems Management
ENVB 437	(3)	Assessing Environmental Impact
FDSC 525	(3)	Food Quality Assurance
NUTR 501	(3)	Nutrition in Developing Countries
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 300	(3)	Cropping Systems

Option B

15 credits from any of the McGill Field Study Semesters

African Field Study Semester

Barbados Field Study Semester

Barbados Interdisciplinary Tropical Studies Field Semester

Panama Field Study Semester

3 credits from the list in Option A

2.6.2.2.9 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Life Sciences (Multidisciplinary) (24 credits)

Students taking this specialization have a wide variety of Life Sciences course offerings to choose from, which allow them to target their program to their own interests in the field. Course choices are balanced between "fundamentals" and "applications." Depending upon the courses chosen, the resulting program may be relatively specialized or very broad, spanning several disciplines. Such a broad background in Life Sciences will open up employment opportunities in a variety of diverse bioscience industries; students with an appropriate CGPA may proceed to a wide variety of postgraduate programs or professional schools.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Complementary Courses (24 credits)

24 credits selected from the following list:

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 350	(3)	Food-Borne Pathogens
ANSC 420	(3)	Animal Biotechnology
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
BTEC 535	(3)	Functional Genomics in Model Organisms
BTEC 555	(3)	Structural Bioinformatics

ENTO 330	(3)	Insect Biology
ENTO 352	(3)	Biocontrol of Pest Insects
ENTO 440	(3)	Insect Diversity
ENTO 535	(3)	Aquatic Entomology
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population and Community Ecology
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 315	(3)	Science of Inland Waters
ENVB 506	(3)	Quantitative Methods: Ecology
ENVB 529	(3)	GIS for Natural Resource Management
FDSC 442	(3)	Food Microbiology
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology
NUTR 337	(3)	Nutrition Through Life
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PARA 410	(3)	Environment and Infection
PARA 424	(3)	Fundamental Parasitology
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 310	(3)	Plant Propagation
PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 434	(3)	Weed Biology and Control
PLNT 435	(3)	Plant Breeding
PLNT 460	(3)	Plant Ecology

2.6.2.2.10 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Microbiology and Molecular Biotechnology (24 credits)

Students following this specialization receive education and training in fundamental principles and applied aspects of microbiology. Complementary courses allow students to focus on basic microbial sciences or applied areas such as biotechnology. Successful graduates may work in university, government and industrial research laboratories, in the pharmaceutical, fermentation and food industries, and with an appropriate CGPA proceed to post-graduate studies or professional biomedical schools.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (18 credits)

BTEC 306	(3)	Experiments in Biotechnology
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology nment and Infection

Complementary Courses and Suggested Electives (6 credits)

ANSC 350	(3)	Food-Borne Pathogens
ANSC 420	(3)	Animal Biotechnology
BINF 511	(3)	Bioinformatics for Genomics
BTEC 501	(3)	Bioinformatics
BTEC 535	(3)	Functional Genomics in Model Organisms
BTEC 555	(3)	Structural Bioinformatics
FDSC 442	(3)	Food Microbiology
MIMM 324	(3)	Fundamental Virology
PLNT 304	(3)	Biology of Fungi

2.6.2.2.11 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Plant Biology (24 credits)

This specialization emphasizes the study of plants from the cellular to the organismal level. The structure, physiology, development, evolution, and ecology of plants will be studied. Most courses offer laboratory classes that expand on the lecture material and introduce students to the latest techniques in plant biology. Many laboratory exercises use the excellent research and field facilities at the Morgan Arboretum, McGill Herbarium, Emile A. Lods Agronomy Research Centre, the Horticultural Centre and the Plant Science greenhouses as well as McGill field stations. Students may undertake a research project under the guidance of a member of the Plant Science Department as part of their studies. Graduates with the specialization may continue in post-graduate study or work in the fields of botany, mycology, molecular biology, ecology, conservation, or environmental science.

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PLNT 310	(3)	Plant Propagation
PLNT 353	(3)	Plant Structure and Function
PLNT 434	(3)	Weed Biology and Control
PLNT 435	(3)	Plant Breeding

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

AGRI 340	(3)	Principles of Ecological Agriculture
ENTO 352	(3)	Biocontrol of Pest Insects
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 322	(3)	Greenhouse Management
SOIL 535	(3)	Ecological Soil Management

2.6.2.2.13 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Professional Agrology (24 credits)

This Specialization is required for students who wish to qualify for membership in the Ordre des agronomes du Québec (OAQ). It cannot be taken alone; it must be taken with the Major Agro-Environmental Sciences and a Second specialization in Animal Production, Ecological Agriculture, Plant Production, or Soil and Water Resources. This Specialization focuses on working in the professional agrology industry and covers agricultural legislation as well as professional conduct.

The credits within this specialization may not count towards the student's Major or other Specialization. All of the 24 credits count only for this Specialization.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>.

Required Courses (15 credits)

AGRI 330	(1)	Agricultural Legislation
AGRI 410D1	(3)	Agrology Internship
AGRI 410D2	(3)	Agrology Internship
AGRI 430	(2)	Professional Practice in Agrology
AGRI 490	(3)	Agri-Food Industry Project
PLNT 430	(3)	Pesticides in Agriculture

Complementary Courses (9 credits)

Students choose 9 complementary credits, approved by the Academic Adviser, in agricultural sciences or applied agriculture to meet the requirements of the OAQ.

2.6.2.2.14 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Professional Agrology for Agribusiness (24 credits)

This Specialization is required for students who wish to qualify for membership in the Ordre des agronomes du Québec (OAQ). It cannot be taken alone; it must be taken with the Major in Agricultural Economics and the Agribusiness Specialization. This Specialization focuses on working in the professional agribusiness industry and covers agricultural legislation as well as professional conduct.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>.

Required Courses (12 credits)

AGRI 330	(1)	Agricultural Legislation
AGRI 410D1	(3)	Agrology Internship
AGRI 410D2	(3)	Agrology Internship
AGRI 430	(2)	Professional Practice in Agrology
AGRI 490	(3)	Agri-Food Industry Project

Complementary Courses (12 credits)

6 credits from:

AEBI 212	(3)	Evolution and Phylogeny
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

3 credits from:

ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production

3 credits from:

PLNT 300	(3)	Cropping Systems
PLNT 302	(3)	Forage Crops and Pastures
PLNT 434	(3)	Weed Biology and Control

2.6.2.2.15 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Soil and Water Resources (24 credits)

** This program is currently not offered. **

This specialization will interest students who want to understand how soils and water interact within managed ecosystems such as urban or agricultural landscapes. The conservation and management of agricultural soils, issues affecting watershed management and decision making, and the remediation of contaminated soils will be examined. When taken with the Agro-Environmental Sciences Major and the specialization in Professional Agrology, this specialization conforms with the eligibility requirements for the Ordre des agronomes du Québec.

 For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>
Required Courses (15 credits)

AGRI 435	(3)	Soil and Water Quality Management
BREE 217	(3)	Hydrology and Water Resources
SOIL 326	(3)	Soils in a Changing Environment
SOIL 331	(3)	Environmental Soil Physics
SOIL 535	(3)	Ecological Soil Management

Complementary Courses (9 credits)

* Note: Students may take BREE 529 or ENVB 529, but not both.

BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 510*	(3)	Watershed Systems Management
BREE 529*	(3)	GIS for Natural Resource Management
ENVB 529*	(3)	GIS for Natural Resource Management
NRSC 333	(3)	Pollution and Bioremediation
SOIL 300	(3)	Geosystems
SOIL 510	(3)	Environmental Soil Chemistry

BREE 420	(3)	Engineering for Sustainability
BREE 451	(1)	Undergraduate Seminar 1 - Oral Presentation
BREE 452	(1)	Undergraduate Seminar 2 Poster Presentation
BREE 453	(1)	Undergraduate Seminar 3 - Scientific Writing
BREE 485	(1)	Senior Undergraduate Seminar 1
BREE 490	(3)	Engineering Design 2
BREE 495	(3)	Engineering Design 3
ECSE 461	(3)	Electric Machinery
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MECH 289	(3)	Design Graphics

Complementary Courses (54 credits)

54 credits of the complementary courses selected as follow:

6 credits - Set A

9 credits - Set B (Natural Sciences and Mathematics)

9 credits - Set C (Social Sciences)

30 credits - Set D (Engineering)

Set A

3 credits from the following:

AEMA 310	(3)	Statistical Methods 1
CIVE 302	(3)	Probabilistic Systems

3 credits from the following:

CHEE 315	(3)	Heat and Mass Transfer
MECH 346	(3)	Heat Transfer

Set B - Natural Sciences and Mathematics

9 credits with a minimum of 3 credits chosen from the list below:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2

ENVR 201	(3)	Society, Environment and Sustainability
SOCI 235	(3)	Technology and Society

Plus 6 credits of Social Sciences, Management Studies, Humanities, or Law courses at the U1 undergraduate level or higher with approval of the Academic Adviser.

~~Not more~~ Plus 6 credits may include one 3-credit language course other than the student's normal spoken languages.

Set D - Engineering

30 credits from the following list where 12 credits must be taken from 200-400 level courses, with the option (and approval of the Academic Adviser) of taking a maximum of 6 credits from other courses offered in the Faculty of Engineering:

BREE 214	(3)	Geomatics
BREE 217	(3)	Hydrology and Water Resources
BREE 314	(3)	BREE 314 Buildings
BREE 322	(3)	Organic Waste Management
BREE 325	(3)	Food Process Engineering
BREE 329	(3)	Precision Agriculture
BREE 412	(3)	Machinery Systems Engineering
BREE 416	(3)	Engineering for Land Development

~~BREE 418~~ WWSoil Mechology anTjModellTsbD Meclm6450E30TD(Soil)BREEEcical MateneeringAdviser1 0 0 1 234.365.687.35 560(Advia, MTj1 0 0 1 292.
Biological Material Prop500.6s, or1 0 0 1 165.864 472.061 Tm(Biol)

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the research activities involved will be documented and signed by the Program Director of the student's major, the supervisor of the research project, and the student.

Required Courses (59 credits)

AEMA 202	(3)	Intermediate Calculus
AEMA 305	(3)	Differential Equations
BREE 205	(3)	Engineering Design 1
BREE 210	(3)	Mechanical Analysis and Design
BREE 216	(3)	Bioresource Engineering Materials
BREE 252	(3)	Computing for Engineers
BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics
BREE 319	(3)	Engineering Mathematics
BREE 327	(3)	Bio-Environmental Engineering
BREE 341	(3)	Mechanics of Materials
BREE 415	(3)	Design of Machines and Structural Elements
BREE 420	(3)	Engineering for Sustainability
BREE 451	(1)	Undergraduate Seminar 1 - Oral Presentation
BREE 452	(1)	Undergraduate Seminar 2 Poster Presentation
BREE 453	(1)	Undergraduate Seminar 3 - Scientific Writing
BREE 485	(1)	Senior Undergraduate Seminar 1
BREE 490	(3)	Engineering Design 2
BREE 495	(3)	Engineering Design 3
ECSE 461	(3)	Electric Machinery
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MECH 289	(3)	Design Graphics

Complementary Courses (54 credits)

54 credits of the complementary courses selected as follows:

Honours Courses

Students choose either Plan A or Plan B

Honours Plan A

12 credits of Honours research courses in the subject area of the student's major in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

12 credits from:

FAES 401	(6)	Honours Research Project 1
FAES 402	(6)	Honours Research Project 2

OR

Honours Plan B

A minimum of 6 credits of Honours courses and 6 credits in 500-level BREE courses, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the program Director of the student's major and the professor who has agreed to supervise the research project.

6 credits from:

FAES 405	(3)	Honours Project 1
FAES 406	(3)	Honours Project 2

Plus 6 credits of BREE courses at the 500 level.

6 credits - Set A

Set A

3 credits from the following:

AEMA 310	(3)	Statistical Methods 1
CIVE 302	(3)	Probabilistic Systems

3 credits from the following:

CHEE 315	(3)	Heat and Mass Transfer
MECH 346	(3)	Heat Transfer

9 credits - Set B (Natural Sciences and Mathematics)

Set B - Natural Sciences and Mathematics

9 credits with a minimum of 3 credits chosen from the list below:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
ENVB 305	(3)	Population and Community Ecology
ENVB 315	(3)	Science of Inland Waters
LSCI 202	(3)	Molecular Cell Biology
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology

Plus 6 credits chosen in consultation with the Academic Adviser.

9 credits - Set C (Social Sciences)

Set C - Social Sciences

Minimum of 3 credits from the following list:

ENVR 201	(3)	Society, Environment and Sustainability
SOCI 235	(3)	Technology and Society

Plus 6 credits of social sciences, management studies, humanities, or law courses at the U1 undergraduate level or higher with approval of the Academic Adviser. Note: these 6 credits may include one 3-credit language course other than the student's normal spoken languages.

18 credits - Set D (Engineering)

Set D - Engineering

18 credits from the following list where 12 credits must be taken from 200-400 level courses, with the option (and approval of the Academic Adviser) of taking a maximum of 6 credits from other courses offered in the Faculty of Engineering:

BREE 214	(3)	Geomatics
BREE 217	(3)	Hydrology and Water Resources
BREE 314	(3)	Agri-Food Buildings
BREE 322	(3)	Organic Waste Management
BREE 325	(3)	Food Process Engineering
BREE 329	(3)	Precision Agriculture
BREE 412	(3)	Machinery Systems Engineering
BREE 416	(3)	Engineering for Land Development
BREE 418	(3)	Soil Mechanics and Foundations
BREE 423	(3)	Biological Material Properties
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 504	(3)	Instrumentation and Control
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 515	(3)	Soil Hydrologic Modelling
BREE 518	(3)	Ecological Engineering
BREE 519	(3)	Advanced Food Engineering
BREE 520	(3)	Food, Fibre and Fuel Elements
	(3)	Bio-Based Polymers

BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics
BREE 319	(3)	Engineering Mathematics
BREE 327	(3)	Bio-Environmental Engineering
BREE 341	(3)	Mechanics of Materials
BREE 415	(3)	Design of Machines and Structural Elements
BREE 420	(3)	Engineering for Sustainability
BREE 451	(1)	Undergraduate Seminar 1 - Oral Presentation
BREE 452	(1)	Undergraduate Seminar 2 Poster Presentation
BREE 453	(1)	Undergraduate Seminar 3 - Scientific Writing
BREE 485	(1)	Senior Undergraduate Seminar 1
BREE 490	(3)	Engineering Design 2
BREE 495	(3)	Engineering Design 3
ECSE 461	(3)	Electric Machinery
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MECH 289	(3)	Design Graphics

Complementary Courses (51 credits)

51 credits of the complementary courses selected as follows:

6 credits - Set A

12 credits - Set B (Natural Sciences)

3 credits - Set C (Social Sciences)

30 credits - Set D (Engineering)

Set A

6 credits

3 credits from the following:

AEMA 310	(3)	Statistical Methods 1
CIVE 302	(3)	Probabilistic Systems

3 credits from the following:

CHEE 315	(3)	Heat and Mass Transfer
MECH 346	(3)	Heat Transfer

Set B - Natural Sciences

6 credits from each of the following two groups:

Group 1 - Biology

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
LSCI 202	(3)	Molecular Cell Biology

LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

Group 2 - Agricultural Sciences

ANSC 250	(3)	Principles of Animal Science
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production
PLNT 300	(3)	Cropping Systems
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 322	(3)	Greenhouse Management
PLNT 430	(3)	Pesticides in Agriculture

Set C - Social Sciences

3 credits from the following list:

ENVR 201	(3)	Society, Environment and Sustainability
SOCI 235	(3)	Technology and Society

Set D - Engineering

30 credits from Group 1, Group 2, and Group 3.

(Minimum of 6 credits from each of Group 1, Group 2 or Group 3) with the option (and approval of the Academic Adviser) of taking 6 credits from other courses offered in the Faculty of Engineering. A minimum of 12 credits must be taken from 200-400 level courses.

Group 1 - Soil and Water

BREE 214	(3)	Geomatics
BREE 217	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 329	(3)	Precision Agriculture
BREE 416	(3)	Engineering for Land Development
BREE 418	(3)	Soil Mechanics and Foundations
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 515	(3)	Soil Hydrologic Modelling
BREE 518	(3)	Ecological Engineering
BREE 529	(3)	GIS for Natural Resource Management
BREE 533	(3)	Water Quality Management

Group 2 - Food Processing

BREE 325	(3)	Food Process Engineering
BREE 519	(3)	Advanced Food Engineering

BREE 520	(3)	Food, Fibre and Fuel Elements
BREE 530	(3)	Fermentation Engineering
BREE 531	(3)	Post-Harvest Drying
BREE 532	(3)	Post-Harvest Storage
BREE 535	(3)	Food Safety Engineering

Group 3 - Other Engineering

BREE 314	(3)	Agri-Food Buildings
BREE 412	(3)	Machinery Systems Engineering
BREE 423	(3)	Biological Material Properties
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 504	(3)	Instrumentation and Control
BREE 522	(3)	Bio-Based Polymers

2.6.3.4 Bachelor of Engineering (Bioresource) – B.Eng.(Bioresource) Related Programs

2.6.3.4.1 Minor in Environmental Engineering

For more information, see [section 2.6.6.9: Minor in Environmental Engineering](#).

2.6.3.4.2 Barbados Field Study Semester

For more information, see [Study Abroad & Field Studies > Undergraduate > section 12.2.1.3: Barbados Field Semester](#).

2.6.3.4.3 Internship Opportunities

For more information, see [section 2.5.1: Internship Opportunities](#).

2.6.4 Bachelor of Science (Food Science) - B.Sc.(F.Sc.)

Please refer to [section 2.5.5: Bachelor of Science in Food Science – B.Sc.\(F.Sc.\) \(Overview\)](#) for advising and other information on these B.Sc.(F.Sc.) programs.

2.6.4.1 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Major Food Science - Food Science Option (90 credits)

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Science Option can also qualify for recognition by the Institute of Food Technologists (IFT).

The Food Science Option is completed to 90 credits with free elective courses.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this eCalendar for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (51 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 (Organic Chemistry) must be completed as a replacement.

AEMA 310	(3)	Statistical Methods 1
AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1

FDSC 300	(3)	Principles of Food Analysis 1
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar Food Science Seminar

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 (Organic Chemistry) must be completed as a replacement.

AEMA 310

(3)

Statistical Methods 1

Rr

Elective Courses (6 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

2.6.4.3 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Major Food Science - Food Chemistry Option (90 credits)

This program is intended for those students interested in the multidisciplinary field of food science. The courses are integrated to acquaint the student with food processing, food chemistry, quality assurance, analytical procedures, food products, standards, and regulations. The program prepares graduates for employment as scientists in industry or government, in regulatory, research, quality assurance, or product development capacities.

Graduates have the academic qualifications for membership in the Canadian Institute of Food Science and Technology (CIFST). Graduates of the Food Science Major with Food Chemistry Option can also qualify for recognition by the Institute of Food Technologists (IFT) and the Ordre des chimistes du Québec (OCQ). Food Chemistry Option is completed to 90 credits with free elective courses.

Please refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this eCalendar for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (54 credits)

Note: If an introductory CEGEP-level Organic Chemistry course has not been completed, then FDSC 230 (Organic Chemistry) must be completed as a replacement.

AEMA 310	(3)	Statistical Methods 1
AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar
FDSC 495D2	(1.5)	Food Science Seminar
FDSC 525	(3)	Food Quality Assurance
FDSC 540	(3)	Sensory Evaluation of Foods
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

Additional Required Courses - Food Chemistry Option (30 credits)

Note: Graduates of this program are qualified for recognition by the Institute of Food Technologists (IFT) and the Ordre des chimistes du Québec (OCQ).

FDSC 233	(3)	Physical Chemistry
FDSC 305	(3)	Food Analysis Technology
FDSC 306	(3)	Food Chemistry in Industry
FDSC 307	(3)	Food Quality Assurance
FDSC 308	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 309	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 310	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 311	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 312	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 313	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 314	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 315	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 316	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 317	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 318	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 319	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 320	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 321	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 322	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 323	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 324	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 325	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 326	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 327	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 328	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 329	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 330	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 331	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 332	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 333	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 334	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 335	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 336	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 337	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 338	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 339	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 340	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 341	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 342	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 343	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 344	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 345	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 346	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 347	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 348	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 349	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 350	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 351	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 352	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 353	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 354	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 355	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 356	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 357	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 358	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 359	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 360	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 361	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 362	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 363	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 364	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 365	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 366	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 367	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 368	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 369	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 370	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 371	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 372	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 373	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 374	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 375	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 376	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 377	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 378	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 379	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 380	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 381	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 382	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 383	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 384	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 385	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 386	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 387	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 388	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 389	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 390	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 391	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 392	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 393	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 394	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 395	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 396	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 397	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 398	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 399	(3)	Food Safety and Inspection Service (FSIS) Regulations
FDSC 400	(3)	Food Safety and Inspection Service (FSIS) Regulations

FDSC 490	(3)	Research Project 1
FDSC 491	(3)	Research Project 2
FDSC 515	(3)	Enzymology
FDSC 516	(3)	Flavour Chemistry
FDSC 520	(3)	Biophysical Chemistry of Food

Electives (6 credits)

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. A portion of these credits should be in the humanities/social sciences.

2.6.4.4 About the Concurrent B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.)

Unique in North America, the concurrent degree program in Food Science and Nutritional Science allows students to complete two degrees at once while offering the best education in these complementary fields. This program opens the door to a multitude of career paths in the nutrition and food industries.

The **Food Science** component of the program focuses on the chemistry of food and the scientific principles underlying food safety, preservation, processing, and packaging, to provide consumers with quality foods. The **Nutritional Science** component deals with the science of human nutrient metabolism and the nutritional aspects of food. The program has been carefully structured to ensure that students receive the training that the industry demands, including a stage placement in the Nutrition or Food Industry.

2.6.4.4.1 Concurrent Bachelor of Science in Food Science (B.Sc.(F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc.(Nutr.Sc.)) - Food Science/Nutritional Science Major (Concurrent) (122 credits)

The concurrent program B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) is designed to give motivated students the opportunity to combine the two fields. The two disciplines complement each other with Food Science providing the scientific foundation in the fundamentals of food science and its application in the food system, while Nutritional Sciences brings the fundamental knowledge in the nutritional aspects of food and metabolism. The program aims to train students with the fundamental knowledge in both disciplines to promote the development of healthy food products for human consumption. The overall program is structured and closely integrated to satisfy the academic requirements of both degrees as well as the professional training or exposure to industry.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this publication for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (80 credits)

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 497	(1.5)	Professional Seminar: Food
FDSC 525	(3)	Food Quality Assurance
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 307	(3)	Metabolism and Human Nutrition
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 497	(1.5)	Professional Seminar: Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits from the following:

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 330	(3)	Agriculture and Food Markets
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 450	(3)	Agribusiness Management
NUTR 342	(3)	Applied Human Resources

At least 9 credits from the following:

ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ENVR 203	(3)	Knowledge, Ethics and Environment
FDSC 516	(3)	Flavour Chemistry
FDSC 535	(3)	Food Biotechnology
FDSC 536	(3)	Food Traceability
FDSC 537	(3)	Nutraceutical Chemistry
NUTR 322	(3)	Applied Sciences Communication
NUTR 341	(3)	Global Food Security
NUTR 503	(3)	Nutrition and Exercise

12 credits from the following:

FDSC 480	(12)	Food Industry Internship
NUTR 480	(12)	Nutrition Industry Internship

Elective Courses (12 credits)

Electives are selected in consultation with an academic adviser.

* Not all courses may be offered every year, please consult with your adviser when planning your program.

2.6.4.4.2 Concurrent Bachelor of Science in Food Science (B.Sc.(F.Sc.)) and Bachelor of Science Nutritional Sciences (B.Sc.(Nutr.Sc.)) - Food Science/Nutritional Science Honours (Concurrent) (122 credits)

Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

In addition to satisfying the research requirements, students must apply for the Honours program in March or April of their U3 year. It is the responsibility of the student to find a professor who is willing to support and supervise the research project. No student will be accepted into the program until a supervisor has agreed to supervise the student. Applicants must have a minimum CGPA of 3.3 to enter the Honours program and they must earn a B grade (3.0) or higher in the courses making up the Honours program. Students are required to achieve a minimum overall CGPA of 3.3 at graduation to obtain honours. Students can use their electives to complete the Honours program. The courses credited to the Honours program must be in addition to any required or complementary courses taken to satisfy the requirements of the student's major and specialization.

The Honours program consists of 12 credits of courses that follow one of two plans listed below.

Students who meet all the requirements will have the name of their program changed to include the word "Honours."

A brief description of the research activities involved will be documented and signed by the Program Director of the student's major, the supervisor of the research project, and the student.

The concurrent program B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) is designed to give motivated students the opportunity to combine the two fields. The two disciplines complement each other with Food Science providing the scientific foundation in the fundamentals of food science and its application in the food system, while Nutritional Sciences brings the fundamental knowledge in the nutritional aspects of food and metabolism. The program aims to train students with the fundamental knowledge in both disciplines to promote the development of healthy food products for human consumption. The overall program is structured and closely integrated to satisfy the academic requirements of both degrees as well as the professional training or exposure to industry.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements" in this eCalendar for prerequisites and minimum credit requirements.

Required Courses (80 credits)

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 497	(1.5)	Professional Seminar: Food
FDSC 525	(3)	Food Quality Assurance
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 307	(3)	Metabolism and Human Nutrition
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 497	(1.5)	Professional Seminar: Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

Two 6-credit Honours research courses in the subject area of the student's major, chosen in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

FAES 401	(6)	Honours Research Project 1
FAES 402	(6)	Honours Research Project 2

Honours Plan B

A minimum of two 3-credit Honours courses and 6 credits in 400- or 500-level courses, from the Faculty of Agricultural and Environmental Sciences, selected in consultation with the Program Director of the student's major. The topic of the Honours research project must be on a topic related to their major and selected in consultation with the Program Director of the student's major and the professor who has agreed to supervise the research project.

FAES 405	(3)	Honours Project 1
FAES 406	(3)	Honours Project 2

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits from the following:

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 330	(3)	Agriculture and Food Markets
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 450	(3)	Agribusiness Management

At least 9 credits from the following:

AGEC 242	(3)	Management Theories and Practices
ENVR 203	(3)	Knowledge, Ethics and Environment
NRSC 340	(3)	Global Perspectives on Food
NUTR 301	(3)	Psychology
NUTR 322	(3)	Applied Sciences Communication
NUTR 342	(3)	Applied Human Resources

12 credits from the following:

FDSC 480	(12)	Food Industry Internship
NUTR 480	(12)	Nutrition Industry Internship

Elective Courses (12 credits)

Electives are selected in consultation with an academic adviser.

2.6.4.5 Bachelor of Science (Food Science) – B.Sc.(F.Sc.) Related Programs

2.6.4.5.1 Certificate in Food Science

Detailed information on this certificate program can be found under [section 2.6.7.2: Certificate \(Cert.\) Food Science \(30 credits\)](#) in this publication.

2.6.5 Bachelor of Science (Nutritional Sciences) – B.Sc.(Nutr.Sc.)

Please refer to [section 2.5.6: Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\) \(Overview\)](#)

NUTR 344	(4)	Clinical Nutrition 1
NUTR 345	(3)	Food Service Systems Management
NUTR 346	(3)	Applied Food Service Management
NUTR 408*	(1)	Professional Practice Stage 3A
NUTR 409*	(9)	Professional Practice Stage 3B
NUTR 438	(3)	Interviewing and Counselling
NUTR 450	(3)	Research Methods: Human Nutrition
	(3)	Public Health Nutrition

FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics

FDSC 442	(3)	Food Microbiology
FDSC 516	(3)	Flavour Chemistry
FDSC 520	(3)	Biophysical Chemistry of Food
FDSC 525	(3)	Food Quality Assurance
FDSC 535	(3)	Food Biotechnology
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 540	(3)	Sensory Evaluation of Foods
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 551	(3)	Analysis of Nutrition Data

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

2.6.5.3 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Global Nutrition (90 credits)

This Major covers many aspects of human nutrition and food and their impact on health and society at the community and international level. It offers a core

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

Common Complementary Courses

At least 6 credits selected from:

15 credits of Electives are taken to meet the minimum credit requirement for the degree. Reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

2.6.5.4 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Health and Disease (90 credits)

This Major of

NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data

At least 9 credits from the following courses:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANSC 312	(3)	Animal Health and Disease
ANSC 560	(3)	Biology of Lactation
MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 414	(3)	Advanced Immunology
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 551	(3)	Analysis of Nutrition Data

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BTEC 306	(3)	Experiments in Biotechnology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 307	(3)	Metabolism and Human Nutrition
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 401	(1)	Emerging Issues in Nutrition
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

Common Complementary Courses

At least 6 credits from the following:

ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ANSC 560	(3)	Biology of Lactation
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

At least 9 credits from the following courses:

ANAT 262	(3)	Introductory Molecular and Cell Biology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 420	(3)	Animal Biotechnology
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition

BINF 301	(3)	Introduction to Bioinformatics
BIOC 312	(3)	Biochemistry of Macromolecules
BIOL 300	(3)	Molecular Biology of the Gene
BTEC 535	(3)	Functional Genomics in Model Organisms
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 314*	(3)	Intermediate Immunology
MIMM 414	(3)	Advanced Immunology
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438*	(3)	Immunology

* Note: Students take either PARA 438 or MIMM 314

Elective Courses (15 credits)

15 credits of electives are taken to meet the minimum credit requirement for the degree. A reciprocal agreement allows all students to take a limited number of electives at any Quebec university. With prior approval students can take electives at any Canadian or international university.

2.6.5.6 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Sports Nutrition (90 credits)

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan from the molecular to the organismal level. The concentration in sports nutrition integrates the influence of exercise and physical activity on health and chronic disease prevention. This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

Refer to "Faculty Information and Regulations" > "Minimum Credit Requirements", in this eCalendar for prerequisites and minimum credit requirements.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (60 credits)

All required courses must be passed with a minimum grade of C.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
	(3)	Metabolism and Human Nutrition

NUTR 401	(1)	Emerging Issues in Nutrition
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 503	(3)	Nutrition and Exercise
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

Common Complementary Courses

At least 6 credits from the following:

ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ANSC 560	(3)	Biology of Lactation
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

At least 9 credits from:

ANAT 214	(3)	Systemic Human Anatomy
EDKP 261	(3)	Motor Development
EDKP 330	(3)	Physical Activity and Public Health
EDKP 395	(3)	Exercise Physiology
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 448	(3)	Exercise and Health Psychology
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology

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2.6.5.7 Bachelor of Science (Nutritional Sciences) – Related Programs

2.6.5.7.1 Minor in Human Nutrition

Detailed information on this Minor can be found under [section 2.6.6.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Human Nutrition \(24 credits\)](#) in this publication.

2.6.5.7.2 Concurrent Bachelor of Science in Food Science – B.Sc.(F.Sc.) and Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.) – Food Science/Nutritional Science Major

Detailed information on this concurrent program can be found under [section 2.6.4.4.1: Concurrent Bachelor of Science in Food Science \(B.Sc.\(F.Sc.\)\) and Bachelor of Science Nutritional Sciences \(B.Sc.\(Nutr.Sc.\)\) - Food Science/Nutritional Science Major \(Concurrent\) \(122 credits\)](#) in this publication.

2.6.6 Minor Programs

The Faculty of Agricultural and Environmental Sciences offers a number of minor programs; the following are offered by the FAES Dean's Office, or in partnership with another school or faculty.

For a full list of minors offered by the Faculty of Agricultural and Environmental Sciences, refer to [section 2.5.9: Minor Programs \(Overview\)](#). For registration information, see [section 2.4.6.8.1: Pr](#)

students in understanding the business environment surrounding the agri-food industry. Finally, it will challenge students to analyze the interaction between the agricultural economy and the natural resource base.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (12 credits)

AGEC 200	(3)	Principles of Microeconomics
AGEC 201	(3)	Principles of Macroeconomics
AGEC 330	(3)	Agriculture and Food Markets
AGEC 333	(3)	Resource Economics

Complementary Courses (12 credits)

12 credits of complementary courses selected from:

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 242	(3)	Management Theories and Practices
AGEC 320	(3)	Intermediate Microeconomic Theory
A	(3)	Farm Management and Finance

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Health and Disease. For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (18 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 350	(3)	Food-Borne Pathogens
ANSC 424	(3)	Metabolic Endocrinology
MICR 341	(3)	Mechanisms of Pathogenicity
PARA 438	(3)	Immunology

Complementary Courses (6 credits)

6 credits selected from the following list:

ANSC 234	(3)	Biochemistry 2
ANSC 251	(3)	Comparative Anatomy
ANSC 303	(2)	Farm Livestock Internship
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 555	(3)	The Use and Welfare of Animals

2.6.6.7 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Applied Ecology (24 credits)

Food, water, air, the materials we use, and much of the diversity of life and recreation we enjoy are products of ecological systems. We manage ecosystems to provide these services and our use and misuse often degrades the ability of ecosystems to provide the benefits and services we value. In the Minor Applied Ecology you will develop your ability to understand how ecosystems function. You will apply systems thinking to the challenge of managing ecosystems for agriculture, forestry, fisheries, protected areas, and urban development. Concepts and tools will be presented that help you to deal with the complexity that an ecosystem perspective brings. The goal of this minor is to provide students with an opportunity to further develop their understanding of the ecosystem processes, ecology, and systems thinking necessary to understand, design, and manage our interaction with the environment.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

To obtain a Minor in Applied Ecology, students must:

- a) Ensure all required and complementary courses are passed with a minimum grade of C;
- b) Select 24 credits from the courses as given below, of which not more than 6 credits may be counted toward the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (12 credits)

ENVB 305	(3)	Population and Community Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 437	(3)	Assessing Environmental Impact
ENVB 529	(3)	GIS for Natural Resource Management

Complementary Courses (12 credits)

12 credits of complementary courses selected as follows:

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ENTO 440	(3)	Insect Diversity
ENVB 301	(3)	Meteorology
ENVB 506	(3)	Quantitative Methods: Ecology

MICR 331	(3)	Microbial Ecology
MICR 450	(3)	Environmental Microbiology
PLNT 304	(3)	Biology of Fungi
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
SOIL 326	(3)	Soils in a Changing Environment
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy

PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology
WOOD 441	(3)	Integrated Forest Management

2.6.6.9 Minor in Environmental Engineering

The Minor program consists of 21 credits in courses that are environment related. By means of a judicious choice of complementary courses, Bioresource Engineering students may obtain this Minor with a minimum of 12 additional credits.

The Environmental Engineering Minor is administered by the Faculty of Engineering, Department of Civil Engineering (see [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > Minor Programs > section 6.12.10.11: Bachelor of Engineering \(B.Eng.\) - Minor Environmental Engineering \(21 credits\)](#)).

Courses available in the Faculty of Agricultural and Environmental Sciences (partial listing)

BREE 217	Hydrology and Water Resources
BREE 322	Organic Waste Management
BREE 416	Engineering for Land Development
BREE 518	Ecological Engineering
MICR 331	Microbial Ecology

For academic advising, please consult mcgill.ca/macdonald/studentinfo/advising.

2.6.6.10 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Human Nutrition (24 credits)

The Minor Human Nutrition is intended to complement a student's primary field of study by providing a focused introduction to the metabolic aspects of human nutrition. It is particularly accessible to students in Biochemistry, Biology, Physiology, Anatomy and Cell Biology, Microbiology and Immunology, Animal Science, or Food Science programs. The completion of 24 credits is required, of which at least 18 must not overlap with the primary program. All courses must be taken in the appropriate sequence and passed with a minimum grade of C. Students may declare their intent to follow the Minor program at the beginning of their U2 year. They must then consult with the academic adviser in the School of Human Nutrition to obtain approval for their course selection. Since some courses may not be offered every year and many have prerequisites, students are cautioned to plan their program in advance.

The Minor program does not carry professional recognition; therefore, it is not suitable for students wishing to become nutritionists or dietitians. However, successful completion may enable students to qualify for many postgraduate nutrition programs.

Note:

Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study well before their final year.

For information on academic advising, see: <http://www.mcgill.ca/macdonald/studentinfo/advising>

Required Courses (6 credits)

NUTR 337	(3)	Nutrition Through Life
NUTR 450	(3)	Research Methods: Human Nutrition

Complementary Courses (18 credits)

18 credits are selected as follows:

3 credits in Biochemistry, one of:

ANSC 234	(3)	Biochemistry 2
BIOC 311	(3)	Metabolic Biochemistry

3 credits in Physiology, one of:

ANSC 323	(3)	Mammalian Physiology
PHGY 210	(3)	Mammalian Physiology 2

3 credits in Nutrition, one of:

ANSC 433	(3)	Animal Nutrition and Metabolism
NUTR 307	(3)	Metabolism and Human Nutrition

9 credits from:

ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
MIMM 314	(3)	Intermediate Immunology
NUTR 344	(4)	Clinical Nutrition 1
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 505	(3)	Public Health Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology
PATH 300	(3)	Human Disease

2.6.6.11 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor International Agriculture (24 credits)

Students enter this minor to acquire a global and applied understanding of agriculture as a fundamental tool to help rural development, alleviate poverty and reach food security, especially in the developing world. This program provides students with a combination of coursework at McGill together with a hands-on experience in a developing country, meeting locals and attending courses with McGill professors and/or local instructors. Agr5864 65.86M4 n 0 1

FDSC 525	(3)	Food Quality Assurance
NUTR 501	(3)	Nutrition in Developing Countries
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PLNT 300	(3)	Cropping Systems

Option B

15 credits from any of the McGill Field Study Semesters:

African Field Study Semester

Barbados Field Study Semester

Barbados Interdisciplinary Tropical Studies Field Semester

Panama Field Study Semester

Plus 3 credits from the list in Option A

2.6.7 Post-Baccalaureate Certificate Programs

The Faculty of

ENVB 305	(3)	Population and Community Ecology
ENVB 415	(3)	Ecosystem Management
MICR 331	(3)	Microbial Ecology
NUTR 341	(3)	Global Food Security
PARA 424	(3)	Fundamental Parasitology
PLNT 302	(3)	Forage Crops and Pastures

FDSC 535	(3)	Food Biotechnology
FDSC 536	(3)	Food Traceability
FDSC 537	(3)	Nutraceutical Chemistry
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

2.6.8 Field Studies

2.6.8.1 Africa Field Study Semester

The Africa Field Studies Semester (AFSS) of

Website: mcgill.ca/animal

2.7.1.2 About the Department of Animal Science

Affiliate Member

René Lacroix

Associate Professors

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

Benjamin Goldstein; B.A.Sc. (Toronto), M.Sc., Ph.D. (DTU)

Shangpeng Sun; B.Eng. (Xi'an U. Sc. Tech.), M.S., Ph.D. (Beijing Jiaolong U.), Ph.D. (Georgia)

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

Fernando Altamura; B.A. (Conservatorio Piccinni, Italy), B.M., M.M. (Rotterdam Hogeschool voor de Kunsten), B.Sc., M.Sc. (McG.), M.M. (Yale), D.M. (UofM)

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

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1. to make our graduates competent in the exercise of their profession;
2. to help the student's integration into professional life;
3. to foster professional mobility;
4. to foster a need for continual development of professional knowledge.

Program Overview

Six academic terms are spent on the Macdonald Campus studying a sequence of courses in soil, plant science, animal science, engineering, and management. The first summer of the program includes a 13-week internship on an agricultural enterprise other than the home farm, or an agricultural business, where the student learns the many skills related to modern commercial agriculture. Students prepare for their Agricultural Internship during both academic semesters of Year 1 through two Stage courses.

During the second summer, students are registered in Enterprise Management 1. During this period, the students will be responsible for data collection to be used in the next two Enterprise Management courses and the Nutrient Management Plan course when they return to the campus for the Fall semester. These internships will enable the students to relate their academic work to the reality of farming and of the agri-food sector.

Finally, courses in English, Français, Humanities, Physical Education, and two complementary subjects taken during the program will entitle the student to receive a Diploma of College Studies (DEC) from the MEESR.

Program Outline

Fall 1

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FMT4 082	(2.33)	Literary Genres (603-102-04)
FMT4 085	(2.33)	Humanities 1: Knowledge (345-103-04)

Winter 2

Two courses selected from the Elective Production course list below.

FMT4 016	(2)	Budgeting and Administration (152-VSR-MC)
FMT4 017	(1.33)	Agricultural Systems (152-VST-MC)
FMT4 083	(2.33)	Literary Themes (603-103-04)
FMT4 091	(1)	Physical Activity and Effectiveness (109-102-MQ)
FMT4 098	(2)	Français agricole (602-VSG-MC)

Summer 2

FMT4 018	(2.33)	Enterprise Management 1 (152-VSU-MC)
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Fall 3

FMT4 019	(2)	Nutrient Management Plan (152-VSV-MC)
FMT4 020	(2)	Conservation of Soil and Water (152-VSW-MC)
FMT4 021	(2.67)	Enterprise Management 2 (152-VSX-MC)
FMT4 022	(1.67)	Equipment Management (152-VSY-MC)
FMT4 078	(2)	FMT English (603-VSB-MC)
FMT4 086	(2)	Humanities 2: World Views (345-102-03)
FMT4 097	(2)	Landscape Design (504-VSG-MC)

Winter 3

quipmenuCeC22 0 0 1 248.07Y.34020	(2)	Building Management (152-VSZ-MC)
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3. The minimum entrance requirements for **students from Ontario** are the Ontario Secondary School Diploma (OSSD), as well as:
- grade 10 French as a second language
 - science: SNC2P (recommended with TCJ20 or TDJ20 or TMJ20) or SNC2D (desired with TCJ20 or TDJ20 or TMJ20)
 - mathematics: MFM2P or MPM2D

For **other Canadian students**, the minimum French requirement is grade 10 second language. Please contact the department for more information.

For **international students**, a recognized French proficiency test may be required. An English proficiency test may also be required. For details on proof of English proficiency, visit mcgill.ca/applying/requirements/prep.

4. All candidates for admission must make arrangements to come to the Macdonald campus for an interview prior to admission to the program.
5. Admission to this program is only in the Fall semester.
6. We strongly encourage incoming students to acquire their driver's permit (both for cars **and** farm equipment) before coming to Macdonald campus. This is first for safety reasons, given that students may work with farm equipment during the first semester. As well, most farmers require their employees and trainees (stagiaires) to drive and possess the appropriate driver's license.

2.7.3.5.2 Important Dates – FMT

2.7.3.5.2.1 Sessional Dates

2.7.3.6 Fees and Expenses – FMT

2.7.3.6.1 Fees

Tuition fees are calculated separately from student fees. For eligible Quebec residents in the Farm Management and Technology Program there is no amount charged for tuition, thanks to support from the *Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec*. Out-of-province and international status FMT students registered for full-time studies pay a tuition fee in addition to student fees. Students considered to be studying part-time (less than 8 credits/semester) will be charged half that amount. For information about fees specific to your residency status, consult the Undergraduate fees tables on the [Student Accounts Website](#). Student fees are charged to all students, regardless of residency.

** All fees are subject to change without notice.*

2.7.3.6.2 Textbooks and Supplies

The cost of textbooks and supplies is estimated at \$250.00 per semester.

2.7.3.6.3 Financial Assistance

In-Course Financial Aid (including loans and bursaries) is available to full-time students on the basis of demonstrated financial need; however, it is recommended that all applicants apply for the maximum government student assistance program for which they are eligible. Students may apply for In-Course Financial Aid through the *Financial Aid & Awards Menu* on Minerva and will then be asked to make an appointment with the Financial Aid Counsellor at the Macdonald Student Service Centre. For more information, consult [University Regulations and Resources](#) > *Undergraduate* > [section 1.8: Scholarships and Student Aid](#) or contact the Student Services Centre at 514-398-7992.

2.7.3.7 Residence Accommodation – FMT

Laird Hall is a co-educational residence with a capacity of 250 students. It accommodates students in double and single rooms. Each floor includes shared washrooms, a fully-equipped kitchen, a television lounge, and a laundry room. For more information, refer to [University Regulations and Resources](#) > *Undergraduate* > *Residential Facilities* > [section 1.14.2: University Residences – Macdonald Campus](#); mcgill.ca/students/housing/macdonald or email residences.macdonald@mcgill.ca.

2.7.4 Department of Food Science and Agricultural Chemistry

2.7.4.1 Location

Macdonald-Stewart Building, Room MS1-034
McGill Univ

Graduate Program Director

Ashraf Ismail

Emeritus Professors

Inteaz Alli; B.Sc.(Guyana), M.Sc., Ph.D.(McG.)

Frederik R. van de Voort; B.Sc., M.Sc., Ph.D.(Br. Col.)

Professors

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

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

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

Associate Professors

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

Saji George; B.Sc., M.Sc.(MGU, Kerala), Ph.D.(NUS) (*Canada Research Chair*)

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

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

Xiaonan Lu; B.Sc.(Ocean), M.Sc., Ph.D. (Wash. St.) (*Ian and Jayne Munro Chair in Food Safety*)

Assistant Professor

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

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

Jeocelyn PTj1 0 0 1 101.173.430.54 Tm(Jare B.Sc.(WcG.)) Ph.D.(WCr

Ad(h0nc Pr)Tj1 0 0 1 119.826 517.6 Tm(Afessors)Tj/F1 8.1 Tf1 0 0 1 70.52 540.888Tm(ALuis Gariat;M.Sc.(IGuelph)

The **Dietetics Major** is an accredited professional program which leads to eligibility to register with a provincial dietetic regulatory body as a registered dietitian. The 3.5 year (115 credits) Dietetics Major is an undergraduate degree which includes 40 weeks of internship (Professional Practice - Stage) which is sequenced and integrated into each year of study. Students are exposed to a variety of practice settings including clinical nutrition, community nutrition, and food service management. The program is designed according to the Integrated Competencies for Dietetics Education and Practice (ICDEP) and is accredited by the *Partnership for Dietetic Education and Practice* (PDEP).

The **Nutrition Major** is a 90-credit undergraduate degree. At its core, it deals with how diet, nutrition, and metabolism affect human health and disease risk. It offers you exciting opportunities to specialize in one of

Associate Professors

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

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

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

Assistant Professors

Anne-Sophie Brazeau; B.Sc., Ph.D.(Montr

Affiliate Members

Piraveena Piremathasan; B.Sc.(McG.) PDI, CDE, CBE (*CIUSSS du Centre-Ouest-de-l'*

length of your program by one year as without all prerequisite courses completed you will be unable to register for your first stage. If at all possible, students should try to complete any missing prerequisite courses in the summer before starting at McGill.

** Students graduating with a DEC in “Sciences, lettres, et arts” (700.A0) are eligible for all programs. They will NOT be disadvantaged during the admission process if they did not complete all prerequisites. They will be required to complete any missing portion of prerequisites at McGill in addition to the B.Sc.(Nutr.Sc.) program requirements. Please note that if they are missing any of the prerequisites, this will extend their program by one year. See ** above.*

Nutrition:

Students may be accepted with a minimum of three prerequisite courses:

- Math NYA (00UK or 01Y5)

and two of the following:

- Biology NYA (00UK or 01Y5)
- Chemistry NYA (00UL or 01Y6)
- Physics NYA (00UR or 01Y7)

If admitted, any missing prerequisites will be added to their McGill program.

More information can be found on the [Applying to Undergraduate Studies](#) website.

2.7.5.6.2 Transfer Students

Students wishing to transfer from other universities and colleges are considered for admission on the basis of both their university work and previous studies. Transfer credits are only determined once students have been admitted and all final official transcripts have been received.

Basic science requirements are:

- one semester in each of differential and integral calculus
- two semesters of biology with labs (biology I and cell biology)

Dietetics applicants only: Please note that if you were required to provide proof of English proficiency when you were initially admitted to McGill, a [communications skills interview](#) may be required.

2.7.5.6.4 Mature Students

Residents of Canada who will be 23 years of age or older at the time of registration, and who have no college or university studies within the last five years that would constitute a basis for admission can apply as a Mature student.

Dietetics:

Mature applicants to this program must have **all** prerequisite courses to apply:

- one semester in each of differential and integral calculus
- two semesters of biology with labs (biology 1 and cell biology)
- one semester of general chemistry with lab
- one semester of organic chemistry with lab
- two semesters (three if done at CEGEP) of physics (mechanics, electricity and magnetism, and waves and optics) with labs

If they are missing any of the prerequisites, they must apply into the Nutrition major, complete any remaining prerequisites and apply to transfer after their first year in Nutrition. Transfer into the Dietetics program depends on GPA and may require a [communications skills interview](#).

Nutrition:

Students may be accepted with a minimum of three prerequisites:

- one semester of calculus for science

and two of the following:

- one semester of biology with lab
- one semester of chemistry with lab
- one semester of physics with lab

If admitted, the remaining prerequisite courses will be added to their program at McGill.

More information and all of the specific conditions for eligibility as a Mature student can be found on the [Applying to Undergraduate Studies](#) website.

2.7.5.7 Academic Information and Regulations

2.7.5.7.1 Academic Standing

For general information, see [section 2.4.6.5: Academic Standing](#).

Dietetics students please note:

- Undergraduate registration for all Professional Practice (Stage) courses is restricted to students in the Dietetics Major with a CGPA greater than or equal to 3.00. The CGPA requirement is firmly applied.
- Students in the Dietetics Major who have a CGPA below 3.0 for two consecutive years will not be permitted to continue in the program.

2.7.6 Department of Natural Resource Sciences

2.7.6.1 Location

Macdonald-Stewart Building
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7773
Fax: 514-398-7990
Email: info.macdonald@mcgill.ca
Website: mcgill.ca/nrs

2.7.6.2 About the Department of Natural Resource Sciences

As humans depend on a wide variety of ecosystem services, society is becoming increasingly aware of the need for sustainable management of natural resources. We require the natural world to provide us with necessities such as air, water, food, and energy, but also depend on ecosystems for services such as nutrient cycling, biodiversity, and all of these (eg. ecosystem services). TETTj1 0 0 0 -1161.69cm4372.52661.69m56983.48 61.69156983.48 66.6914372.52666.69lhf gBT/F1 10 T

The Department of Natural Resource Sciences is a multidisciplinary group with a wide range of interests, including wildlife and fish biology, entomology, agriculture, soil science, microbiology, genomics, meteorology, forest science, landscape ecology, agricultural and resource economics, and environmental policy. We are concerned with the populations and div

Associate Professors

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

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

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

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

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

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

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

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

Nicolas Kosoy; B.Sc.(USB), M.Sc., Ph.D.(Autonoma, Barcelona) (*joint appt. with Bieler School of Environment*) – *Ecological Economics*

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

Assistant Professors

Mary Doidge; B.A., B.Sc., M.Sc.(Guelph), Ph.D. (MSU)

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

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

Jessica Gillung; B.Sc.(UFPR), M.Sc.(São Paulo), Ph.D.(Calif., Davis)

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

Melissa McKinney; B.Sc.(Br. Col.), M.Sc.(Windsor), Ph.D.(Car.) (*Canada Research Chair*) *Ecological Change*

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

Associate Member

Christopher Barrington-Leigh (*School of Environment*)

David M. Green (*Redpath Museum*)

Jacqueline Bede (*Plant Science*)

Robin Thomas Naylor (*Economics*)

Adjunct Professors

Kimberly Fernie

Charles W. Greer

Affiliate Member

Adrian Unc

Geoffrey Sunahara

2.7.7 Institute of Parasitology

2.7.7.1 Location

Institute of Parasitology
Parasitology Building
McGill University, Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9
Canada
Telephone: 514-398-7722
Fax: 514-398-7857
Email: graduate.parasitology@mcgill.ca

Associate Professors

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.)

Academic Associate

Frieda Beauregard B.Sc. M.Sc. Ph.D.(McG.)

Adjunct Professors

Konstantinos Aliferis

Annick Bertrand

Antoine Page

2.8 Instructional Staff

Instructional Staff

Adamchuk, Viacheslav I.; B.S.(National Agricultural Univ., Ukraine), M.S., Ph.D.(Purd.); Professor, Bioresource Engineering and Chair, Department of Bioresource Engineering

Adamowski, Jan; B.Eng.(RMC), M.Phil.(Camb./MIT), M.B.A.(Warsaw/HEC Paris/London Business School/NHH), Ph.D.(Warsaw); Associate Professor, Bioresource Engineering (*William Dawson Scholar*)

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

Akbarzadeh Shafaroudi, Abdolhamid; B.Sc.(IUT, Iran), M.Sc.(AUT, Iran), Ph.D.(New Br.); Assistant Professor, Bioresource Engineering (*Canada Research Chair*)

Altamura, Fernando; B.Sc. (AES), M.Sc., Ph.D.(McG.); Faculty Lecturer, Bioresource Engineering

Basu, Niladri; B.Sc.(Qu.), M.Sc.(Br. Col.), Ph.D.(McG.); Associate Professor, Nutrition/Environmental Toxicology (*Canada Research Chair*)

Bayen, Stephane; B.Sc.(ENSCM), M.Eng.(NUS), M.Sc., Ph.D.(ENSCM); Associate Professor, Food Science and Agricultural Chemistry

Bede, Jacqueline; B.Sc.(Calg.), M.Sc., Ph.D.(Tor.); Associate Professor, Plant Science

Beech, Robin N.; B.Sc.(Nott.), Ph.D.(Edin.); Associate Professor, Parasitology and Associate Dean, Graduate and Postdoctoral Studies

Begg, Caroline; B.Sc.(Agr)

Instructional Staff

Cherestes, Alice; B.A., M.A.(QC, CUNY), Ph.D.(CUNY); Senior Faculty Lecturer, Agricultural and Environmental Sciences

Chevalier, Stephanie; B.Sc., M.Sc., Ph.D.(Montr.);

Instructional Staff

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

Instructional Staff

Sun, Shangpeng; B.Eng.(Xi'an University of Science and Technology), M.Sc., Ph.D.(Beijing Jiaotong University), Ph.D.(University of Georgia); Assistant Professor, Smart Production Systems Engineering

Thériault, Pascal; B.Sc.(Agr.), M.Sc.(Kansas St.); Faculty Lecturer, Farm Management and Technology Program

Thomassin, Paul; B.Sc.(Agr.)(McG.), M.S., Ph.D.(Hawaii Pac.); Professor, Agricultural Economics

Titley-Péloquin, David; B.Sc., M.Sc., Ph.D.(McG.); Senior Faculty Lecturer, Bioresource Engineering

Vasseur, Elsa; B.Sc., M.Sc.(ISA, Lille), M.Sc.(AgroParisTech), Ph.D.(Laval); Assistant Professor, Animal Science (*William Dawson Scholar*)

Wade, Kevin; B.Agr.Sc., M.Agr.Sc.(Dublin), Ph.D.(Cornell); Associate Professor, Animal Science

Wang, Yixiang; B.Sc., Ph.D.(Wuhan); Assistant Professor, Advanced Food Packaging

Wees, David D.; B.Sc.(Agr.), M.Sc.(McG.); Faculty Lecturer, Plant Science

Whalen, Joann; B.Sc.(Agr.)(Dal.), M.Sc.(McG.), Ph.D.(Ohio St.); Professor, Soil Science (*James McGill Professor*)

Whyte, Lyle G; B.Sc.(Regina), Ph.D.(Wat.); Professor, Microbiology (*Canada Research Chair*)

Wykes, Linda; B.Sc., M.Sc., Ph.D.(Tor.); Professor, Human Nutrition and Director, School of Human Nutrition

Xia, Jeff; B.Sc(PKUHSC), M.Sc., Ph.D.(Alta.); Associate Professor, Parasitology (*Canada Research Chair*)

Yaylayan, Varoujan A.; B.Sc., M.Sc.(Beirut), Ph.D.(Alta.); Professor, Food Science and Agricultural Chemistry and Chair, Department of Food Science and Agricultural Chemistry

Zhao, Xin; B.Sc., M.Sc.(NAU), Ph.D.(Cornell); Professor, Animal Science (*James McGill Professor*)

3 Faculty of Arts

3.1 About the Faculty of Arts

The McGill campus is an oasis in the heart of the business, cultural, and entertainment centres of downtown Montreal. At the centre of the Dness, cultura9 5208.1 Tf(riau13

3.4 About Arts (Undergraduate)

The McGill campus is an oasis in the heart of the business, cultural, and entertainment centres of downtown Montreal. At the centre of the Downtown campus is the McCall MacBain Arts Building, the oldest building on campus and the University's flagship. It houses classrooms, administrative offices, and Moyses Hall, an historic and superbly equipped theatre. For years, the front steps of the Arts Building have been a favourite spot to meet and to take a respite from the rigours of coursework. In addition to the McCall MacBain Arts Building, the Faculty of Arts is housed in 22 other buildings across campus, including historic houses and former apartment buildings across campus.

The Faculty of Arts, the faculty that lies both literally and figuratively at the heart of the University, has enjoyed steady growth since it was established in 1843 and remains by far the largest faculty at McGill. The Faculty is home to 15 departments, 22 interdisciplinary programs, the School of Religious Studies, three professional schools (the School of Information Studies, the School of Social Work, and the Max Bell School of Public Policy), four institutes and 12 centres. It has over 300 tenured or tenure-track scholars, over 8,100 undergraduates and over 1,200 graduate students, and offers several hundred courses. Despite the numbers, the majority of classes in Arts are smaller than those offered by any other large research university in Canada. The humanities and social science disciplines that constitute the Faculty share a common endeavour: to understand the human condition in order to improve it.

The Faculty maintains bilateral exchange programs with many universities around the world and encourages students to spend a term or two studying abroad, either through an exchange program or independently. Internships have also now become an integral part of an undergraduate degree. The Faculty of Arts Internship Office (AIO) assists students who wish to pursue short-term internship opportunities before completing their studies. The Faculty of Arts stands alone nationally in the scope and extent of services its established infrastructure and comprehensive support system makes available to students before,

3.4.3 Faculty of Arts Office of Advising and Student Information Services (OASIS)

Arts OASIS provides ongoing advice and guidance on programs, degree requirements, Academic Standing, interfaculty transfer, study away, and graduation for undergraduate Arts students.

Faculty advisers in Arts OASIS offer help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions. Arts OASIS advisers can be contacted by visiting our website at mcgill.ca/oasis.

Arts OASIS advisers also assist in approving course selection for UO Arts Freshman students.

Special requests can be made, in writing, to the Associate Dean (Student Affairs). For more information, please refer to our website at mcgill.ca/oasis.

3.5 Faculty Admission Requirements

For information about admission requirements to the B.A., B.A. & Sc., B.S.W., or B.Th. please refer to the *Undergraduate*

Arts Students who have been granted advanced standing for the International Baccalaureate, Advanced Placement examinations, GCE A-Levels, French Baccalaureate, and other qualifications, but who wish to complete a four-year undergraduate program at McGill, will be permitted to do so with the appropriate limitations on the repetition of courses for which they have received exemptions. This gives students with advanced standing the option of completing 120 McGill credits.

Please contact [Arts OASIS](#) should you wish to further discuss this with an adviser.

3.6.2 Residency Requirement

To obtain a degree, you must complete a minimum of 60 credits at McGill University toward the fulfilment of your degree requirements. At least two-thirds of all program requirements (Multi-track, Honours, F

18 credits with 6 credits in each of three of the four Arts categories: social sciences, humanities, languages, and mathematics and science.

The course lists below are organized by Arts category and include only courses approved by the offering department for Freshman (U0) students. Students may use these lists to plan their course selection.

Approved Courses - Social Sciences

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: If you intend to follow a psychology program, you should not register in SOCI 216 (Social Psychology). PSYC 215 (Social Psychology) is more appropriate. Credit will not be given for both courses.

Note: A few courses may be listed in both Social Sciences and in another category. For example, CANS 200 and ISLA 210 are considered to be both Social Sciences and Humanities courses.

Approved Courses - Humanities

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: A few courses may be listed in both Humanities and in another category. For example, CANS 200 is considered to be both Humanities and Social Science courses; FREN 198 and FREN 199 are considered to be both Humanities and Languages courses.

Approved Courses - Languages

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: When registering for 'D1' courses, you MUST also register for the second part 'D2' of this full-year course.

Note: No more than one language should be taken at the introductory level during the Freshman year. Students with prior knowledge of the language may take higher-level courses with permission from the department.

Note: A few courses may be listed in both Languages and in another category. For example, FREN 198 and FREN 199 are considered to be both Languages and Humanities courses.

Approved Courses - Mathematics and Sciences

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: GEOG 205 is listed as a Mathematics and Sciences course as well as a Social Sciences course.

3.6.4.1.2 Bachelor of Arts (B.A.) - Freshman Program - French (30 credits)

The Bachelor of Arts Freshman Program is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits in one of two program options. In the "En français" or French option, students choose up to 18 credits from a variety of courses conducted in French. These credits may be comprised wholly of language courses, wholly of substantive content courses conducted in French, or a combination of the two.

Core Requirement (18 credits)

Based on their proficiency in French, students select 18 credits from the courses below in French Language and Literature and French as a Second Language.

French Language and Literature Courses (FREN)

FREN 199	(3)	FYS: Littérature française
FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 231	(3)	Linguistique française
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire normative

French as a Second Language (FRSL)

Depending on their level of proficiency, students may include a maximum of 12 credits of intensive French language courses. An intensive language course is a 6 credit term course. Students at the introductory level must take at least 6 credits in French in their Freshman year but may be permitted to complete the remaining core requirement credits in year U1.

FRSL 101	(3)	Beginners French 1
FRSL 102	(3)	Beginners French 2
FRSL 103	(3)	Near Beginners French
FRSL 104	(3)	Corrective French Pronunciation
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1

3.6.4.2 Departmental Programs for Bachelor of Arts

If you need 96 or fewer credits to complete your degree requirements, you are required to have an approved program (Multi-track, Honours, Faculty), and to select your courses in each term with a vie

- The Faculties of Arts and of Science, and at least one other faculty.
- The Faculty of Arts, and at least one faculty other than the Faculty of Science.
- The Faculty of Arts currently recognizes the following Faculty programs in:
 -

- Students who have already received credit for MATH 324 or MATH 357 will **not** receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program/department adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

3.6.5.3 Programs Outside the Faculties of Arts or Science – For Arts Students

The following regulations apply to you if you are an Arts student and wish to take a program outside the Faculties of Arts or Science:

- 1.** Regardless of the minimum credit requirement towards your B.A. degree, you are allowed a maximum of 12 credits in elective and/or complementary courses taken in faculties other than the Faculties of Arts or Science.
- 2.**

3.6.5.4 Inter-University Transfer Credit Policy for Courses Taken Outside the Faculties of Arts and of Science

If you transfer from a faculty outside the Faculties of Arts and of Science at another institution, you may transfer up to a maximum of 30 credits under the following conditions:

- Only courses passed with a grade of C or better will be transferred. Grades of C-, P or S are not acceptable. The letter grades applied by your former home institution take precedence over the numerical grades if provided.
- Decisions on whether a course is outside the Faculties of Arts and of Science will be based on the original faculty in which your course was taken.
- Refer to [section 3.6.5.6: Policy on Online Courses](#).
- Transfer credits for Continuing Education courses will be granted only if the courses can be used towards a degree program in a faculty other than Continuing Education at your former home university.
- You will be allowed to take courses outside the Faculties of Arts and of Science at McGill only if you have transferred fewer than 12 credits, and then only up to a maximum of 12 credits.
- If you register for a Faculty of Arts program that requires additional credits outside the Faculties of Arts and of Science, you will be allowed to take only the number of credits outside the Faculties of Arts and of Science required to complete your program, **as long as the total number of credits outside the Faculties of Arts and Science, including transfer credits, does not exceed 40 credits.**

3.6.5.5 Interfaculty Transfer Credit Policy for Courses Taken Outside the Faculties of Arts and of Science

Upon a successful Interfaculty Transfer to the B.A. degree, you will normally receive credit for all the Arts and Science courses you have completed and up to a maximum of 30 credits for courses outside of Arts and Science you completed with grades of D or better. The grades for these courses will remain included in the GPA (regardless of the grade).

- Upon transfer, you will be allowed to take courses outside the Faculties of Arts and of Science at McGill only if you have transferred fewer than 12 credits, and then only up to a maximum of 12 credits.
- If you register for a Faculty of Arts program that requires additional credits outside the Faculties of Arts and of Science, you will be allowed to take only the number of credits outside the Faculties of Arts and of Science required to complete your program, **as long as the total number of credits outside the Faculties of Arts and Science, including transfer credits, does not exceed 40 credits.**

3.6.5.6 Policy on Online Courses

You may take only one First-Year Seminar. If you register for more than one, you will be obliged to withdraw from all but one of them.
For a complete list, see the Registrar's Office website.

3.9.2 The Degrees Offered

The **Bachelor of Arts** (B.A.) degree integrates the Humanities, Social Sciences, Languages and Literatures, and a wide range of Interdisciplinary Studies into a coherent academic program. It is as broad and comprehensive in scope as is human behaviour and communication. Students interested in gaining insight into how society worked and how people expressed themselves in the past, how society works and how people express themselves today, and what we may look for in the future, pursue a B.A. degree.

Students interested in the traditional and the avant-garde are equally at home in the Faculty of Arts. The B.A. is a degree that allows students to appreciate the interdisciplinary connections with the past in order to understand the present and to prepare for a promising future. A McGill B.A. leads to a wide range of opportunities in many fields, especially those that emphasize critical thinking.

The Faculty of Arts at McGill is especially proud of its major and minor concentration programs known as the multi-track system. The multi-track system encourages flexibility, independence, and knowledge in a diversity of disciplines. It provides students with an unprecedented opportunity to tailor a unique academic profile suited to their specific interests and career ambitions. Students also have the option of doing minor concentrations in other faculties.

The **Bachelor of Social Work** (B.S.W.), an undergraduate program of professional studies, is offered through the School of [section 3.10.37: Social Work \(SWRK\)](#). In addition to the standard three-year B.S.W. program, the School offers a two-year program for students who already have an undergraduate degree in another discipline.

The B.S.W. program is designed to provide an academic environment in which students will develop: integrated social work knowledge pertaining to its history, theoretical foundations, and research base; practice modalities and policies that influence the delivery of health and social services; professional skills in the well-established methods of practice; an understanding of social policy in Canada; an awareness of the various dimensions of diversity and how they intersect in an increasingly heterogeneous society; and a sense of identity with the profession of social work.

The **Bachelor of Theology** (B.Th.) degree is offered through the School of [section 3.10.34: Religious Studies \(RELG\)](#). The B.Th. program is designed primarily for those who intend to qualify for the ordained ministry in a Christian denomination, although some students pursue the degree out of an interest in the academic study of theology for its own sake, or with a view to combining these studies with proficiency gained in other disciplines.

The **Bachelor of Arts & Science** (B.A. & Sc.) is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by the Faculty of Arts and one offered by the Faculty of Science, or a program offered jointly by both faculties.

The central objective of the B.A. & Sc. is to provide students with a broad education that includes in-depth study of disciplines in both faculties. The degree gives students a unique opportunity to achieve a diverse knowledge base, to gain competence in different methods of scholarship, to hone intellectual flexibility

Minor Concentrations

English - Literature – [section 3.10.13.6: Bachelor of Arts \(B.A.\) - Minor Concentration English - Literature \(18 credits\)](#)

English - Drama and Theatre – [section 3.10.13.7: Bachelor of Arts \(B.A.\) - Minor Concentration English - Drama and Theatre \(18 credits\)](#)

English - Cultural Studies – [section 3.10.13.8: Bachelor of Arts \(B.A.\) - Minor Concentration English - Cultural Studies \(18 credits\)](#)

Environment – see [Bieler School of Environment](#) > [Undergraduate](#) > [Browse Academic Programs](#) > [section 7.7.1.1: Bachelor of Arts \(B.A.\) - Minor Concentration Environment \(18 credits\)](#)

European Literature and Culture – [section 3.10.26.9: Bachelor of Arts \(B.A.\) - Minor Concentration European Literature and Culture \(18 credits\)](#)

Finance for Non-Management Students – see [Desautels Faculty of Management](#) > [Undergraduate](#) > [Overview of Programs Offered by the Desautels Faculty of Management](#) > [Minors for Non-Management Students](#) > [section 9.8.7.3: Bachelor of Commerce \(B.Com.\) - Minor Finance \(For Non-Management Students\) \(18 credits\)](#)

Gender, Sexuality, Feminist, & Social Justice Studies – [section 3.10.17.4: Bachelor of Arts \(B.A.\) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies \(18 credits\)](#)

Geography – [section 3.10.18.5: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(18 credits\)](#)

Geography (Urban Studies) – [section 3.10.18.6: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(Urban Studies\) \(18 credits\)](#)

German Language – [section 3.10.26.10: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\)](#)

German Studies – [section 3.10.26.11: Bachelor of Arts \(B.A.\) - Minor Concentration German Studies \(18 credits\)](#)

GIS and Remote Sensing – [section 3.10.18.7: Bachelor of Arts \(B.A.\) - Minor Concentration GIS & Remote Sensing \(18 credits\)](#)

Health Geography – [section 3.10.18.8: Bachelor of Arts \(B.A.\) - Minor Concentration Health Geography \(18 credits\)](#)

Hispanic Studies – [section 3.10.26.15: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Studies \(18 credits\)](#)

History – [section 3.10.19.4: Bachelor of Arts \(B.A.\) - Minor Concentration History \(18 credits\)](#)

History and Philosophy of Science – [section 3.10.22.3.3: Bachelor of Arts \(B.A.\) - Minor Concentration History and Philosophy of Science \(18 credits\)](#)

Indigenous Studies – [section 3.10.21.7: Bachelor of Arts \(B.A.\) - Minor Concentration Indigenous Studies \(18 credits\)](#)

International Development Studies – [section 3.10.23.3.3: Bachelor of Arts \(B.A.\) - Minor Concentration International Development Studies \(18 credits\)](#)

Italian Studies – [section 3.10.26.19: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#)

Jewish Studies – [section 3.10.25.4: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Studies \(18 credits\)](#)

Langue et littérature françaises - Études et pratiques littéraires – [section 3.10.8.6: Bacaes et pratiques2a138.76/F61 350.611 621.52 Tm03section 3.10.1 Tj\(aise2](#)

Major Concentrations

History – *section 3.10.19.5: Bachelor of Arts (B.A.) - Major Concentration History (36 credits)*

International Development Studies – *section 3.10.23.3.4: Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)*

Italian Studies – *section 3.10.26.20: Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)*

Jewish Studies – *section 3.10.25.5: Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 cr*

Joint Honours Programs

Hispanic Studies – *section 3.10.26.18: Bachelor of Arts (B.A.) - Joint Honours Component Hispanic Studies (36 credits)*

History – *section 3.10.19.7: Bachelor of Arts (B.A.) - Joint Honours Component History (36 credits)*

International Development Studies – *section 3.10.23.3.6: Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)*

Italian Studies – *section 3.10.26.22: Bachelor of Arts (B.A.) - Joint Honours Component Italian Studies (36 credits)*

Jewish Studies – *section 3.10.25.7: Bachelor of*

3.10.1 First-Year Seminars

A complete list of Arts First-Year Seminars is available on the [Arts OASIS](#) website. See [Class Schedule](#) for descriptions.

Please see [section 3.6.5.9: First-Year Seminar Courses](#) to determine if you qualify to register for an FYS course.

3.10.2 Faculty of Arts Internship Program

Most departments in the Faculty of Arts offer undergraduate students the opportunity to earn university credit while gaining experience in areas relevant to their fields of study. Open to U2 and U3 students, normally after completing 30 credits of a 90-credit program or 45 credits of a 96- to 120-credit program, normally with a minimum CGPA of 2.7, and permission of the departmental internship adviser. Arts internships involve a minimum of 150 hours of work with an approved host institution or organization. Students are required to submit a major topical paper that discusses an aspect of the internship from an academic perspective.

For more information about the Faculty of Arts Internship Program, see mcgill.ca/arts-internships.

3.10.3 Study Abroad and Field Studies

Study Abroad Options

Studying at another university is an opportunity to enrich your undergraduate education and provide you with a chance for personal growth. A term or year abroad takes planning, and must be approved by the Faculty of Arts. Be sure to carefully read about the various types of study abroad opportunities for Faculty of Arts undergraduate students at mcgill.ca/oasis/away:

- Bilateral Student Exchanges
- Independent Study Abroad
- Studies at a Quebec University (IUT)
- Online Courses
- Summer Explore Program

Field Study Courses and Field Study Minor

See details at mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare/field-study-semester, or at [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

For more Field Study information, please contact the Coordinator:

Internships & Field Studies Office
 Faculty of Science
 Burnside Hall, Room 720
 Email: ifso.science@mcgill.ca
 Website: mcgill.ca/science/undergraduate/internships-field

or

Science Office for Undergraduate Student Advising (SOUSA)
 Faculty of Science
 Dawson Hall, Room 405
 Telephone: 514-398-5442
 Website: mcgill.ca/science/student

3.10.4 Anthropology (ANTH)

3.10.4.1 Location

Stephen Leacock Building, Room 712
 855 Sherbrooke Street West
 Montreal QC H3A 2T7
 Telephone: 514-398-6868
 Website: mcgill.ca/anthropology

Administrative and Student Affairs Coordinator: Ms. Joanne Terrasi; 514-398-6868, giovanna.terrasi@mcgill.ca

3.10.4.2 About Anthropology

The Honours program and Major Concentration in Anthropology emphasize the similarity and diversity of human behaviour; understanding of social and cultural systems; and the processes of socio-cultural change from human origins to the present day. Within Anthropology, the Department concentrates on the fields of Archaeology and Socio-Cultural Anthropology.

Our programs serve as a useful background for those who are planning a career in teaching and research in social sciences and humanities, or a career in law, medicine, foreign service, community organization, public administration, and journalism. The Multi-track Major and Minor Concentrations provide students with a solid grounding in anthropology as a whole, or in selected topical or sub-disciplinary areas, while allowing students to follow programs in other departments that suit their needs and interests. The Honours program provides a greater focus on Anthropology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Students should have a GPA of at least 3.5 to register in an Honours or Joint Honours program after their first year. For information regarding CGPAs needed at graduation for Honours, First-Class Honours, and Joint Honours degrees, see [University Regulations & Resources](#) > [Undergraduate](#) > [Graduation](#) > [Graduation Honours](#) > [section 1.9.3.4: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#).

3.10.4.3 Core Courses

Core courses in Anthropology (350 level) provide students with essential knowledge of method and theory. They are more intensive than other 300-level courses, and **are restricted to Anthropology program students in U2 standing or above**.

3.10.4.4 Anthropology Minor Concentrations

The Minor Concentration in Anthropology consists of 18 credits (six 3-credit courses) in the discipline and is designed to complement students' study in related disciplines or in interdisciplinary programs. The degree may enhance the employment profile of graduating students wishing to work in social services; in multicultural or multiethnic settings; in international development, aboriginal history, or museum work; or in educational or media related professions.

Students should register in the Minor Concentration prior to their second year of study at McGill. No credits taken in a minor may overlap with another degree program. The Minor Concentration may be expanded into the single Anthropology Major Concentration.

3.10.4.5 Anthropology Faculty

Chair

Lisa Stevenson

Undergraduate Program Director

Hillary Kaell

Graduate Program Director

Diana Allan

Ismael Vaccaro

Professors

John Galaty; B.A.(Trin. Coll., Hartford), M.A., Ph.D.(Chic.)

Ronald W. Niezen; B.A.(Br. Col.), M.Phil., Ph.D.(Camb.)

Associate Professors

Nicole Couture; B.A.(Trent), M.A., Ph.D.(Chic.)

Sandra T. Hyde; B.A.(Calif.-Santa Cruz), M.P.H.(Hawaii), Ph.D.(Calif., Berk.)

Hillary Kaell; B.A.(McG.), M.A.(Tor.), Ph.D.(Harv.)

Eduardo O. Kohn; B.A.(Oberlin), M.A., Ph.D.(Wisc. Madison)

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

Setrag Manoukian; B.A.(IUAV, Italy), M.A., Ph.D.(Mich.) (*joint appt. with Institute of Islamic Studies*)

Kristin Norget; B.A.(Vic., BC), M.Phil., D.Phil.(Camb.)

James M. Savelle; B.Sc., M.Sc.(Ott.), M.A.(Ark.), Ph.D.(Alta.)

Colin H. Scott; B.A.(Reector 15280.28 Tm, Italy), M.A.m86ms in Calif., Berk.)

ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

400 Level

6 credits, two 400-level Anthropology (ANTH) courses.

Undergraduate Level

18 credits of additional under

200 Level

A maximum of 12 credits of Anthropology (ANTH) courses at the 200 level.

300 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 300 level (only one 3-credit Special Topic course at the 300 level is permitted).

Core (350 Level)

A minimum of 9 credits of core courses at the 350 level selected from:

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods

Ar

Complementary Courses (18 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline.

ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic

COMS 200	(3)	History of Communication
COMS 230	(3)	Communication and Democracy
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 301	(3)	Core Concepts in Critical Theory
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
COMS 340	(3)	New Media
COMS 350	(3)	Sound Culture
COMS 354	(3)	Media Studies of Crime
COMS 355	(3)	Media Governance
COMS 361	(3)	Selected Topics Communication Studies 1
COMS 362	(3)	Selected Topics Communication Studies 2
COMS 400	(3)	Critical Theory Seminar
COMS 410	(3)	Cultures in Visualization
COMS 411	(3)	Disability, Technology and Communication
COMS 425	(3)	Urban Culture and Everyday Life
COMS 435	(3)	Advanced Issues in Media Governance
COMS 490	(3)	Special Topics in History and Theory of Media
COMS 491	(3)	Special Topics in Communications Studies
COMS 492	(3)	Power, Difference and Justice
COMS 495	(3)	Directed Reading
COMS 497	(3)	Independent Study
COMS 510	(3)	Canadian Broadcasting Policy

3.10.5.7 Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)

Revision, June 2021. Start of revision.

The Major Concentration in Art History concentrates on analysis of forms of visual and material culture from ancient to contemporary times. It provides a grounding in diverse fields and methods of the discipline.

Complementary Courses (36 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

21-33 complementary credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship).

Note: Courses in studio practice cannot be counted toward the Major concentration.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
		Introduction to East

ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

Revision, June 2021. End of revision.

3.10.5.8 Bachelor of Arts (B.A.) - Honours Art History (54 credits)

Revision, June 2021. Start of revision.

The Honours Art History program provides in-depth training, with emphasis on art historical methods and research, while allowing students flexibility in

33-45 among departmental course offerings as follows:

-A maximum of 15 credits may be at the 200 level.

-A minimum of 6 credits must be at the 400 level or above (other than ARTH 490 Museum Internship).

-6 credits should be taken in a language other than English or in courses in one or two related disciplines selected with the written approval of the academic adviser.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism

ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

Revision, June 2021. End of revision.

3.10.5.9 Bachelor of Arts (B.A.) - Joint Honours Component Art History (36 credits)

Revision, June 2021. Start of revision.

The Joint Honours Component Art History is a flexible program that emphasizes breadth, depth as well as art historical methods and research. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.50 for admission into the program and the awarding of Honours

Required Courses (6 credits)

ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (30 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History

ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

15-27 credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (other than ARTH 490 Museum Internship).

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)

Montreal QC H3A 0E9
Telephone: 514-398-7071, ext. 00739

Email: ugrad-sec@cs.mcgill.ca
Website: cs.mcgill.ca

3.10.7.2 About Computer Science

For a list of teaching staff, an outline of the nature of computer science, and the opportunities for study in this discipline, refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.9: Computer Science \(COMP\)](#). The School also offers a program in the [Faculty of Engineering](#) and major concentrations for the [Bachelor of Arts and Science](#).

Students must have completed MATH 133, MATH 140, MATH 141 or equivalents in order to begin taking courses in computer science programs.



Note: At the time of registration in the penultimate year, students must declare their intent to receive the Minor Concentration in Computer Science.

3.10.7.3 Bachelor of Arts (B.A.) - Minor Concentration Computer Science (18 credits)

The Minor Concentration Computer Science is designed for students who want to gain a basic understanding of computer science principles and may be taken in conjunction with any program in the Faculty of Arts.

Students are strongly encouraged to talk to an adviser of the School before choosing their complementary courses to ensure they follow an approved course sequence.

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Required Courses (9 credits)

* Students who have sufficient knowledge of programming should not take COMP 202, and instead should replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (9 credits)

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364 and COMP 396.

COMP 230	(3)	Logic and Computability
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 280	(3)	History and Philosophy of Computing
MATH 240	(3)	Discrete Structures

3.10.7.4 Bachelor of Arts (B.A.) - Supplementary Minor Concentration in Computer Science (18 credits)

The Supplementary Minor Concentration may be taken only by students registered in the Major Concentration Computer Science or the Major Concentration Software Engineering. There may be no overlap in credits taken for this Supplementary Minor Concentration and the Major Concentration Computer Science/Software Engineering. Taken together, these constitute a program very close to the Major Computer Science offered by the Faculty of Science. Students must get their selection of courses approved by an Academic Adviser in the School of Computer Science.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements" and "Departmental Programs" for the Multi-track System options.

Complementary Courses (18 credits)

18 credits selected from Computer Science (COMP) courses at the 300 level or above excluding COMP 364 and COMP 396.

Students may also select a maximum of 3 credits of MATH courses from the list below.

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic

MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Mathematics

Bachelor of Ar

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from COMP 230 and COMP courses at the 300 level or above (except COMP 364, COMP 396).

3.10.7.6 Bachelor of Arts (B.A.) - Major Concentration Software Engineering (36 credits)

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering". Arts students that are interested in further study in Computer Science can combine the Major Concentration in Software Engineering with the Supplementary Minor Concentration in Computer Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs" for the Multi-track System options.

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

* Note: Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design
COMP 421	(3)	Database Systems
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Cour

3.10.7.7 Computer Science (COMP) Related Programs

3.10.7.7.1 Joint Honours in Mathematics and Computer Science

For more information, see [Faculty of Science](#) > [Undergraduate](#) > [Browse Academic Units & Programs](#) > [section 11.13.22: Mathematics and Statistics \(MATH\)](#). Admission to the program is based on a strong performance in CEGEP-level mathematics courses. Students must consult an Honours adviser in both departments.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and a minimum program GPA of 3.00.

3.10.8 Le Département des littératures de langue française, de traduction et de création

3.10.8.1 Coordonnées

McCall MacBain Arts, bureau 155
853, rue Sherbrooke ouest
Montréal QC H3A 0G5
Téléphone : 514-398-3772
Site web : mcgill.ca/litterature/fr

3.10.8.2 Généralités : Langue et littérature françaises

Le Département des littératures de langue française, de traduction et de création offre un programme de cours qui couvre l'ensemble des littératures de la langue française (France, Québec, Afrique francophone) ainsi que d'autres aspects des é

Professeurs émérites

Y. Lamonde; M.A.(Montr.), Dr. 3e Cy.(Paris X)

F. Ricard; M.A.(McG.), Dr. 3e Cy.(AMU), M.S.R.C.

Y. Rivard; M.A.(McG.), Dr. 3e Cy.(AMU)

Professeurs

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

F. Charbonneau; M.A., Ph.D.(Montr.)

I. Daunais; M.A., Ph.D.(McG.) (*Chaire de recherche du Canada sur l'esthétique du roman*)

D. Desrosiers; M.A., Ph.D.(Montr.), M.S.R.C. (*James McGill Professor en études de la Renaissance*)

O. Dyens; M.A., Ph.D.(Montr.)

Professeurs agrégés

I. Arseneau; M.A.(UWO), Ph.D.(Montr.)

A. Bernadet; M.A., D.E.A., Dr. 3e Cy.(Paris VIII)

P. Brissette; M.A.(Montr.), Ph.D.(McG.)

M. Diouf; M.A., D.E.A. (UCAD, Senegal), Ph.D. (Laval)

N. Doiron; M.A., Ph.D.(Montr.)

J. Everett; M.A.(Car.), Ph.D.(McG.)

A. Farah; M.A., Ph.D.(UQAM)

G. Lane-Mercier; M.A.(Montp.), Ph.D.(McG.)

C. Leclerc; M.A.(UQAM), Ph.D.(C' dia)

Professeurs adjoints

A. Coussy; M.A.(AMU), Dr. 3e Cy.(Paris III)

L. Ouellet Tremblay; B.A., M.A., Ph.D.(UQAM)

3.10.8.5 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)

Le programme « Concentration mineure en Langue et littérature françaises (option « Langue franç

De 0

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

15 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

ORIENTATION A : « Études littéraires »

12 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

3 crédits choisis parmi les cours du bloc « Pratiques ».

ORIENTATION B : « Pratiques littéraires »

12 crédits choisis parmi les cours d'au moins deux séries différentes du bloc « Pratiques » ;

3 crédits choisis parmi les cours du bloc « Études ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Thé

CCTR 219 *2	(3)	Fundamentals of Comparative Stylistics and Writing (French)
CCTR 225 *3	(3)	Introduction to Translation (English to French)
CCTR 325 *4	(3)	Semi-Specialized Translation (English to French)
CCTR 326 *5	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *6	(3)	Traduction Littéraire-Français
CCTR 453 *7	(1.5)	Technical Translation: Information Technology (English to French)
CCTR 455 *7	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *7	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *7	(1.5)	Transcreation (English to French)
CCTR 507 *8	(3)	Editing and Revising (French)
CCTR 535 *9	(3)	Computer-Aided Translation and Terminology
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

3.10.8.7 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et litt. françaises - Traduction (18 crédits)

Le programme de « Concentration mineure en Langue et littérature françaises (option « Traduction ») » offre une introduction à la traduction de l'anglais vers le français. Il favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier.

Traduction av

au moins 3 crédits choisis parmi les cours du bloc « Pratiques » ;
de 0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;
les crédits restants (de 3 à 18) seront choisis parmi les blocs « Études » ou « Pratiques ».

ORIENTATION B - Créativité et Innovation

FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 * 5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

au moins 3 crédits choisis parmi les cours des séries « Création » et « Édition » ;

de 0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;

les crédits restants (de 3 à 18) seront choisis parmi les cours des blocs « Études » ou « Pratiques » ou encore parmi les autres cours pratiques de traduction de l'ÉÉP.

Liste de cours

I) BLOC: ÉTUDES

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine

FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *1	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1
FREN 394 *1	(3)	Théories de la traduction
FREN 420	(3)	Enjeux de l'écriture littéraire
FREN 422	(3)	Le métier d'écrivain-e
FREN 425 *1	(3)	Traduction et culture
FREN 496	(3)	Savoirs de la littérature 2

*1 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

(c) Série « Traduction »

History (HIST)

Institute for Gender, Sexuality and Feminist Studies (GSFS)

Institute of Islamic Studies (ISLA)

Italian Studies (ITAL)

Jewish Studies (JWST)

Languages, Literatures and Cultures (LLCU)

Linguistics (LING)

McGill Institute for the Study of Canada / Institut d'études canadiennes de McGill (Canadian Studies: CANS) (Indigenous Studies: INDG)

Philosophy (PHIL)

Quebec Studies / Programme d'études sur le Québec (QCST)

Russian Studies (RUSS)

School of Religious Studies/Études religieuses (RELG)

Sexual Diversity Studies (SDST)

Sociology (SOCI)

W

de 3 à 6 crédits choisis parmi les cours suivants :

FREN 420	(3)	Enjeux de l'écriture littéraire
FREN 422	(3)	Le métier d'écrivain-e

au moins 6 crédits choisis parmi les cours de la série « Création » ;

0 à 6 cré

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *1	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1
FREN 394 *1	(3)	Théories de la traduction
FREN 420	(3)	Enjeux de l'écriture littéraire
FREN 422	(3)	Le métier d'écrivain-e
FREN 425 *1	(3)	Traduction et culture
FREN 496	(3)	Savoirs de la littérature 2

*1 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique

Atelier d'écriture80.521 Tm((3))Tj1 0 0 57Tm(Atelier d')T4t sWn2rri44.05

CCTR 455 *7	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *7	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *7	(1.5)	Transcreation (English to French)
CCTR 507 *8	(3)	Editing and Revising (French)

COURS COMPL

0 à 3 crédits choisis parmi les séries « Création » et « Édition » du bloc « Pratiques ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

II) BLOC: PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série: « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.8.11 Baccalauréat ès Arts (B.A.) - Double Spécialisation Langue & littérature françaises - Études et pratiques littéraires (36 crédits)

Ce programme, qui prépare aux études supérieures, offre une formation spécialisée incluant l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. La formation vise également à fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Les étudiant(e)s suivent aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires. Ils et elles doivent en outre se spécialiser dans l'un ou l'autre grand domaine en choisissant entre trois orientations : « Études littéraires », « Création littéraire » et « Traduction littéraire ». L'inscription au programme présuppose une très bonne connaissance du français lu, écrit et parlé. Moyennes minimales requises : 3,00 pour l'ensemble des cours du programme et un CGPA de 3,00. Pour les détails quant aux jumelages possibles, consulter le site Web de la Faculté des Arts.

COURS OBLIGATOIRES (18 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 333	(3)	Questions de littérature du Moyen Âge et de l'Ancien Régime
FREN 444	(3)	Questions de littérature moderne
FREN 450	(3)	Questions de littérature québécoise
FREN 464D1	(3)	Mémoire de spécialisation
FREN 464D2	(3)	Mémoire de spécialisation

COURS COMPLÉMENTAIRES (18 crédits)

L'étudiant(e) doit choisir entre trois orientations :

« A : Études littéraires », « B : Création littéraire » ou « C : Traduction littéraire » :

ORIENTA

De 6 à 12 crédits choisis parmi les cours suivants :

CCTR 326 *3	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 507 *4	(3)	Editing and Revising (French)
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 349	(3)	Traduction et recherche 2
FREN 431 *4	(3)	Traduction et révision
FREN 441 *3	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2

*3 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*4 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

De 3 à 6 crédits choisis parmi les cours suivants :

CCTR 331 *6	(3)	Current Trends in Translation Studies
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *6	(3)	Théories de la traduction
FREN 425 *6	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

I) BLOC : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

(c) Série « Traduction »

CCTR 219 *7	(3)	Fundamentals of Comparative Stylistics and Writing (French)
	(3)	Introduction to Translation (English to French)

*3 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*4 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*8 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

3.10.9 East Asian Studies (EAST)

3.10.9.1 Location

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

3.10.9.2 About East Asian Studies

About East Asian Studies

Welcome to East Asian Studies! If you want to understand the challenges our world is facing today—from climate change to population flows—you owe it to yourself to learn about the cultures and histories of Asia. At McGill, you can study the languages and cultures of China, Japan, and Korea with renowned faculty whose research extends across regions and disciplines, from Buddhist art to Japanese Anime, from Korean cinema to Chinese sci-fi. We offer general survey courses on Korea, China, and Japan as well as upper level lectures and seminars on questions of media, gender, religion, archaeology and critical theory.

At EAS, we believe that the first step towards gaining knowledge of the history, literature, philosophy, or film of any culture begins with a deep learning of languages. We offer small, hands-on, intensive language classes led by excellent teachers who are committed to every student's progress as well as to facilitating a vibrant community of collaborative learning. We also offer guidance and support for students interested in study abroad programs in other Asian cities.

Our graduate program offers both MA and PhD degrees. Students conduct original research, working closely with faculty supervisors in their area of specialty. ariety of courses both inside and outside the department to tailor the right training for their progress in their chosen research path.

Whether minoring, majoring, or doing graduate work, a degree in East Asian Studies will prepare you for future leadership roles in a variety of professions. Our graduates have successfully pursued careers in business, academia, law, the arts, and the sciences. Their background in East Asian studies continues to spark life-long interests in comparative investigation of societies, politics and art, fueled by a commitment to understand the world through challenging familiar perspectives. We invite you to join us!

3.10.9.3 East Asian Studies Faculty

Chair

Grace Fong

Professors

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

Associate Professors

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

Jeehee Hong; B.A., M.A.(Yonsei), M.A., Ph.D.(Chic.) (*joint appt. with Art History and Communication Studies*)

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.)

Marianne Tarcov; B.A.(Chic.), M.A., Ph.D.(Calif., Berk.)

Faculty Lecturers

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

3.10.9.4 Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Complementary Courses (18 credits)

18 credits selected as specified below.

Introduction to East Asian Culture

3 credits from the following:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

9 credits of language (see the list below). Students may meet this requirement by passing the first level of Korean, Chinese or Japanese with a grade of "C" or better. Students with prior knowledge of an Asian language may substitute a second level in place of a first level. Or, these students may take 6 credits of language at the 400-level or above from the list and an additional 3 credits of East Asian Studies (EAST) courses.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean

EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

3.10.9.5 Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies
EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema

Modern and Contemporary Chinese Tj1 0 0 1 336.864 6772 339.836eese Cinema

EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	Themes: Modern Japan
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires

HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management
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Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia
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Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhism in Historical Context

3.10.9.7 Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)

Complementary Courses (36 credits)

Introduction to East Asian Culture

3-6 credits from the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits from the following:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2

EAST 535	(3)	Chinese for Business 1
EAST 536	(3)	Chinese for Business 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Literature, Culture and Society

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies
EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 328	(3)	Archaeology East Asian Empires
EAST 350	(3)	Gender and Sexuality in Chinese Literature

EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 328	(3)	Archaeology East Asian Empires
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

Geography (GEOG)

GEOG 408	(3)	Geography of Development
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History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	Themes: Modern Japan
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management
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Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia
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Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhism in Historical Context

3.10.9.8 Bachelor of Arts (B.A.) - Honours East Asian Studies (60 credits)

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00. In addition, Honours students must maintain a minimum GPA of 3.30 in program courses.

Required Courses (6 credits)

Honours thesis:

EAST 498D1	(3)	Honours Thesis: East Asian Studies
EAST 498D2	(3)	Honours Thesis: East Asian Studies

Complementary Courses (54 credits)**Introduction to East Asian Culture**

3-6 credits from:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits from:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

24 credits of an East Asian language selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese

Chinese
Japanese
Modern Japanese 1
Classical Japanese 2
Advanced Translation in Japanese

Literature and Society

East Asian Literature, Culture and Society.

Topics (EAST)

	(3)	Current Topics: Chinese Studies 1
	(3)	Current Topics: Chinese Studies 2
	(3)	Current Topics: Japanese Studies 1
06	(3)	Current Topics: Japanese Studies 2
307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (1960-1911)
EAST 361	(3)	Animation and New Media

EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema

In

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	Themes: Modern Japan
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management
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Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia
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Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(3)	East Asian Buddhism
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhism in Historical Context

3.10.9.9 Bachelor of Arts (B.A.) - Joint Honours Component East Asian Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00. In addition, Joint Honours students must maintain a minimum GPA of 3.30 in program courses.

Required Course (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Complementary Courses (33 credits)**Introduction to East Asian Culture**

3-6 credits from:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits selected from:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 540D1	(3)	Fourth Level Japanese

EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2

Topics: East EA17 T18.8urrent arees courses, 0 1 165.864 709.84 T118.8urrent 1 0 0 1 70.52 565.981 T18.8urrent 51 39

EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

3.10.10 Economics (ECON)

3.10.10.1 Location

Stephen Leacock Building, Room 414
 855 Sherbrooke Street West
 Montreal QC H3A 2T7
 Telephone: 514-398-3030
 Email: undergraduate.economics@mcgill.ca
 Website: mcgill.ca/economics

3.10.10.2 About Economics

For more up-to-date, detailed information about the Department and its programs, please visit our websites as follows:

- Majors and Minors – mcgill.ca/economics/undergraduates/majorminor
- Honours – mcgill.ca/economics/undergraduates/honours

U0 students interested in economics should take ECON 208 and ECON 209. These courses provide good preparation for the honours and major programs, although neither course is a prerequisite for either program. The first year of microeconomics courses for the Honours program (ECON 250D1/D2) and for the Majors program (ECON 230D1/D2) should not be taken in the U0 year.



Note: The Economics Honours program is offered to both B.A. and B.Com. students. All Honours students must meet with a Department Honours adviser in **each** year of their Honours program.

Information on credit would 29.411 Tm(Information about 0 1o ion on creditTm(each)Tj/F1 8.1 Tf1 0 0 .861 Tm(e9c15.740(each)T .1 Tf1 0 0 .w1 2 eithe(e9c15.740(eaw/

3.10.10.3 Economics Faculty

Chair

Francisco Ruge-Murcia

Emeritus Professors

Antal Deutsch; B.Com.(Sir G. Wms.), Ph.D.(McG.)

George Grantham; B.A.(Antioch), Ph.D.(Yale)

Joseph Greenberg; B.A., M.A., Ph.D.(Hebrew)

Kari Polanyi Levitt; B.Sc.(LSE), M.A.(Tor.)

John C. Rowley; B.Sc., M.Sc., Ph.D.(LSE)

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

Professors

Hassan Bencheikroun; Diplôme d'ingénieur d'état(EMI, Morocco), Ph.D.(Laval)

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

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

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

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

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

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

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

Fabian Lange; B.Sc.(LSE), Ph.D.(Chic.) (*Canada Research Chair Tier 2*)

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

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

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

Associate Professors

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

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

Daniel Barczyk; B.Com., M.A.(Tor.), Ph.D.(NYU)

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

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

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

James Engle-Warnick; B.S.E.E.(Uakron), M.B.A.(Carn. Mell), Ph.D.(Pitt.)

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

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

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

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

Required Courses (18 credits)

All students must take 6 credits of approved statistics courses. Students should refer to the Department's document "Rules on Stats Courses for Economics Students" at [http://www.econ.yale.edu/department/undergraduate/undergraduate_rules_on_stats_courses_for_economics_students.pdf](#)

ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

Complementary Courses (12 credits)

Complementary courses are usually taken in U2 or U3.

12 credits of Economics courses at the 300, 400, or 500 level, approved by an Honours adviser. Unless explicitly approved by the Honours advisor, at least 9 of the 12 credits have to be at the 400 or 500 level. Note that Honours students are not permitted to register for majors or general Economics courses where an Honours or a more advanced undergraduate course in the same subject is offered.

3.10.10.7 Bachelor of Arts (B.A.) - Joint Honours Component Economics (30 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two approved disciplines. For a list of available Joint Honours programs, see "O8 535.541 Tm(v)T 0 0 1 67.52 476.921j1 0 oervi1 208.396 486.42.91476.921j1 0 ow0 0 Pe "O8 5 O1 321.829 525.00.9"

ECON 352D2	(3)	Macroeconomics - Honours
ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Course (3 credits)

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

3.10.10.8 Bachelor of Arts (B.A.) - Joint Honours Component Economics / Joint Honours Component Accounting (60 credits)

The B.A. Joint Honours in Economics and Accounting is offered jointly by the Economics Department and the Desautels Faculty of Management. Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics. For the Management component of this Joint Honours program, students should see the Honours program adviser in the Desautels Faculty of Management.

All Joint Honours students should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>.

The B.A. Joint Honours in Economics and Accounting requires the completion of 30 specified credits of Honours economics courses and 30 specified credits for Accounting.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250, and a minimum B- average in the required and complementary Honours Economics courses. Note that graduation with Honours has more stringent requirements than these (see below).

For graduation with Honours in the Economics component, a student must obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the initial and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

To earn Honours in Economics and Accounting, the Faculty of Management requires that students must achieve a grade of B- or better in all courses of the Accounting component of this program.

Program Prerequisites (0-10 credits)

For entering the program:

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Or equivalent (to be completed prior to U2)

** Or equivalent

Economics - Required Courses (27 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" av

ECON 352D2	(3)	Macroeconomics - Honours
ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours

Notes:

1. Three of the 6 credits for ECON 250 are counted in the Management Core, where it replaces MGCR 293.
2. Three of the 6 credits for ECON 257 are counted in the Core, where it replaces MGCR 271.
3. Three of the 6 credits for ECON 352 are counted in the Core, where it replaces ECON 295.

Economics - Complementary Courses (3 credits)

3 credits selected from the following Economics courses:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

Accounting - Required Courses (18 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 455	(3)	Development of Accounting Thought
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Introduction to Finance

Accounting - Complementary Courses (12 credits)

12 credits of Accounting courses selected from:

ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2

3.10.10.9 Bachelor of Arts (B.A.) - Joint Honours Component Economics / Joint Honours Component Finance (60 credits)

The B.A. Joint Honours in Economics and Finance is offered jointly by the Economics Department and the Desautels Faculty of Management. Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics. For the Management component of this Joint Honours program, students should see the Honours program adviser in the Desautels Faculty of Management.

All Joint Honours students should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>.

The B.A. Joint Honours in Economics and Finance requires the completion of 30 specified credits of Honours Economics courses listed in the Economics Honours Program and 30 specified credits for Finance. This program is designed to take advantage of both McGill's Finance and Economics course offerings to produce a student who is well trained in these two complementary areas. To enter this Joint Honours program, students must have completed two terms of Calculus.

Continuation from one year to the ne

FINE 547	(3)	Advanced Finance Seminar
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Introduction to Finance

Finance - Complementary Courses (12 credits)

12 credits of Finance courses selected from:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 444	(3)	Principles and Strategies of Securities Trading
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Corporate Finance
FINE 541D1	(1.5)	Applied Investments
FINE 541D2	(1.5)	Applied Investments

3.10.10.10 Standing in Honours and Joint Honours Programs

Normally, to be awarded an Honours degree, a student must obtain a 3.00 program GPA in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are normally a 3.50 program GPA in the required and complementary credits in Economics, and a CGPA of 3.50. For additional requirements for the B.Com. Honours in Economics, Joint Honours in Economics and Finance, and Joint Honours in Economics and Accounting, consult the *Desautels Faculty of Management* section of this publication for their program grade and GPA requirements. In particular, these programs also require a minimum grade of B- in all Management courses.

3.10.10.11 Economics (ECON) Related Programs

3.10.10.11.1 Minors in Management

Economics students can also do one of the four minors offered by the Desautels Faculty of Management for non-Management students. Refer to [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.7: Minors for Non-Management Students](#) for more information about program requirements and applying.

- Finance for Non-Management Students; see [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > Minors for Non-Management Students > section 9.8.7.3: Bachelor of Commerce \(B.Com.\) - Minor Finance \(For Non-Management Students\) \(18 credits\)](#)
- Management for Non-Management Students; see [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > Minors for Non-Management Students > section 9.8.7.4: Bachelor of Commerce \(B.Com.\) - Minor Management \(For Non-Management Students\) \(18 credits\)](#) applying.
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Website: mcgill.ca/isa/student/minor

3.10.11.2 About Education for Arts Students

This **Minor Concentration** allows Arts students to develop and explore an interest in education. It gives students a solid footing in the basics of pedagogy and may provide a starting point towards a B.Ed. or MATL degree. Students who wish to add the minor must first review important information and procedures at mcgill.ca/isa/student/minor.

3.10.12 Educational Psychology

3.10.12.1 Location

Department of Educational and Counselling Psychology
 Faculty of Education
 3700 McTavish Street
 Montreal QC H3A 1Y2
 Telephone: 514-398-4242
 Email: ecpinfo.education@mcgill.ca
 Website: mcgill.ca/edu-ecp

Program Director

Professor Alenoush Saroyan
 Department of Educational and Counselling Psychology
 Faculty of Education
 3700 McTavish Street, Room 614
 Telephone: 514-398-4248

Program Coordinators

Department of Educational and Counselling Psychology
 Faculty of Education
 3700 McTavish Street, Room 614
 Telephone: 514-398-4248
 Email: ecpundergrad.education@mcgill.ca

3.10.12.2 About Educational Psychology

Educational Psychology encompasses:

- a. the theoretical and applied study of learning, cognition, and instruction in a variety of educational settings across ages and domains;
- b. instructional technology and computers as cognitive tools in learning;
- c. cognitive and social processes in learning;
- d. evaluation and enhancement of learning and teaching;
- e. methods of fostering inclusive education;
- f. relationships of phenomena related to teaching, learning, and assessment in human development;
- g. the impact of family and community on children's learning and development.

For further information, please refer to [Faculty of Education > Undergraduate > Browse Academic Units & Programs > section 5.8.1: Educational and Counselling Psychology](#).

3.10.12.3 Bachelor of Arts (B.A.) - Minor Concentration Educational Psychology (18 credits)

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching career should consult the Faculty of Education section of this eCalendar for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Respecting Faculty of Arts Multi-track System regulations, students registering for the Major Concentration Psychology and the Minor Concentration Educational Psychology must complete an additional minor concentration in Arts in a unit other than Psychology.

Students should consult the Faculty of Arts sections on "Faculty Degree Requirements," "Program Requirements," and "Departmental Programs" for information on the "Multi-track System" and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc.

Required Course (3 credits)

This required course has a prerequisite of an introductory course in psychology taken at either CEGEP or university level (e.g., PSYC 100 or EDPE 300). Students who do not have this prerequisite prior to entry into the program may take either PSYC 100 or EDPE 300. EDPE 300 may count as one of the complementary courses for the Minor concentration.

EDPE 335 (3) Instructional Psychology

Complementary Courses (15 credits)

15 credits to be selected as follows:

3 credits to be taken near the end of program completion, one of:

Note: Students with a background in psychology should normally select EDPE 355. EDPE 355 has a prerequisite, either PSYC 231 or permission of the instructor.

EDPE 355	(3)	Cognition and Education
EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences

12 credits selected from the following list:

* Note: Students may not receive credit for both EDPE 208 and PSYC 304. EDPE 208 is not open to students registered in a major or minor concentration in Psychology.

EDPE 208*	(3)	Personality and Social Development
EDPE 304	(3)	Measurement and Evaluation
EDPE 355	(3)	Cognition and Education
EDPE 377	(3)	Adolescence and Education
EDPE 515	(3)	Gender Identity Development
EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences
EDPI 341	(3)	Instruction in Inclusive Schools
EDPI 526	(3)	Supporting Students' Strengths and Talents
EDPI 527	(3)	Creativity and its Cultivation
EDPI 543	(3)	Family, School and Community

3.10.13 English (ENGL)

3.10.13.1 Location

McCall MacBain Arts Building, Room 155
853 Sherbrooke Street West
Montreal QC H3A 0G5
Telephone: 514-398-5196
Website: mcgill.ca/english

3.10.13.2 About English

The Department of English offers a wide variety of courses covering three linked and overlapping areas: literature written in English; drama, including courses in dramatic literature and courses that introduce the student to the basic elements of theatrical performance; and cultural studies, including analysis of a variety of visual and verbal media. These three areas are integrally related, and all students in the English Department programs are invited rogr7 192.482 Tm(These

3.10.13.4 Department of English Student Association (DESA)

DESA is the representative body for the students of the English Department at McGill. Any student taking one or more courses in the Department is automatically a member of DESA.

Associate Professors

D. Salter; B.A.(Br. Col.), M.A., Ph.D.(Tor.)

N. Schantz; B.A.(Stan.), M.A., Ph.D.(USC)

M.W. Selkirk; B.A.(Alta.), M.F.A.(Ill.)

T. Sparks; B.A.(Bates), M.A., Ph.D.(Wash.)

A. Thain; B.A.(McG.), Ph.D.(Duke)

M. Van Dussen; B.A.(OWU), M.A., Ph.D.(Ohio St.)

K. Zien; B.A.(Col.), Ph.D.(N'western)

Assistant Professors

A. Manshel; B.A., M.A.(Middlebury), Ph.D.(Stanford)

M. Nicholson; B.A.(Calif., Berk.), Ph.D.(Calif.-LA)

R. So; B.A.(Brown), Ph.D.(Col.)

3.10.13.6 Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

Departmental Surv

ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 342	(3)	Introduction to Old English
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English

Additional Literature

6 additional credits from ENGL of

ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

3.10.13.7 Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 230	(3)	Introduction to Theatre Studies
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Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

Theatre History: Medieval and Early Modernementar

ENGL 431	(3)	Studies in Drama
ENGL 458	(3)	Theories of Text and Performance 1

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

Departmental Survey of English Literature 1

ENGL 342	(3)	Introduction to Old English
ENGL 349	(3)	English Literature and Folklore 1
ENGL 452	(3)	Studies in Old English

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American:

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2

18 Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 403	(3)	Studies in the 18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2

ENGL 405 (3) Studies in 19th Century Literature 2

Victorian

ENGL 329 (3) English Novel: 19th Century 1
 ENGL 330 (3) English Novel: 19th Century 2
 ENGL 334 (3) Victorian Poetry
 ENGL 404 (3) Studies in 19th Century Literature 1
 ENGL 405 (3) Studies in 19th Century Literature 2

19th Century American

ENGL 326 (3) 19th Century American Prose
 ENGL 422 (3) Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

ENGL 361 (3) Poetry of the 20th Century 1
 ENGL 414 (3) Studies in 20th Century Literature 1

Modernist

ENGL 335 (3) The 20th Century Novel 1
 ENGL 361 (3) Poetry of the 20th Century 1
 ENGL 414 (3) Studies in 20th Century Literature 1
 ENGL 418 (3) A Major Modernist Writer

Post-modernist

ENGL 320 (3) Postcolonial Literature
 ENGL 339 (3) Canadian Prose Fiction 2
 ENGL 443 (3) Contemporary Women's Fiction

Contemporary

ENGL 320 (3) Postcolonial Literature
 ENGL 333 (3) Development of Canadian Poetry 2
 ENGL 336 (3) The 20th Century Novel 2
 ENGL 339 (3) Canadian Prose Fiction 2
 ENGL 362 (3) Poetry of the 20th Century 2
 ENGL 407 (3) The 20th Century
 ENGL 408 (3) The 20th Century
 ENGL 419 (3) Studies in 20th Century Literature
 ENGL 443 (3) Contemporary Women's Fiction

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (30 credits)

30 credits selected as described below.

3 credits from the following practice-based courses:

ENGL 269	(3)	Introduction to Performance
ENGL 365	(3)	Costuming for the Theatre 1
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 377	(3)	Costuming for the Theatre 2

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 373	(3)	Voice and Speech 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theory or Criticism Courses

3 credits from the list of Theory or Criticism courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Theatre History Courses

3 credits from the list of Theatre History courses:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Before 1900 Courses

3 credits from the list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Option's Offerings - Additional Courses

12 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

ENGL 314	(3)	20th Century Drama
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There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below, should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet of

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component.

Historical Dimension

6 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Additional Cultural Studies

9 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count tow

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser who is approached by a student with strong academic grounds for including a third such course may grant permission (to a maximum of 9 extra-departmental credits) and must so indicate in advance by signing the departmental program audit sheet.

3.10.13.12 Bachelor of Arts (B.A.) - Honours English - Literature (54 credits)

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 54 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1/ENGL 491D2), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 54 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Required Courses (18 credits)

ENGL 202, ENGL 203 and ENGL 311 are normally taken in the first two terms of the program. ENGL 360 is normally taken in the second year of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics
ENGL 360	(3)	Literary Criticism
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

Complementary Courses (36 credits)

36 credits selected as described below. At least 6 of the 36 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the program adviser. At least 3 of the 36 credits must be devoted to a course on a M561 Tm(HonouTCl.a.841 Tm(EN1 0 us-(At least 3 ou1 Or 4

Backgrounds of English Literature

ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 452	(3)	Studies in Old English
ENGL 553	(3)	Old English Literature

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century
ENGL 516	(3)	Shakespeare

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 310	(3)	Restoration and 18th Century Drama

18th Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 403	(3)	Studies in the 18th Century
ENGL 503	(3)	18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
ENGL 334	(3)	Victorian Poetry
		Studies in 19th Century Literature 1

Complementary Courses (42 credits)

42 credits selected as described below. At least 6 of the 42 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the Program Adviser. A maximum of 9 of the 42 credits are allowed at the 200 level, none in the final year of the program. **42 credits**

ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 516	(3)	Shakespeare

Theory Courses

3 credits from the list of courses in Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

400-Level Theory Courses

3 credits from a list of courses with a theoretical component, from the option's offerings at the 400 level or above:

ENGL 458	(3)	Theories of Text and Performance 1
ENGL 459	(3)	Theories of Text and Performance 2
ENGL 467	(3)	Advanced Studies in Theatre History

Performance-Oriented Courses

9 credits from the list of Performance-Oriented courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 373	(3)	Voice and Speech 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3
ENGL 565	(3)	Drama Workshop

English Courses

12 credits in English selected in consultation with an academic adviser.

Drama and Theatre - Courses of Interest - Other Departments

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text

Departmental Offerings

6 credits from among other Departmental offerings (ENGL courses).

Additional Cultural Studies

15 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Honours English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio
ENGL 382	(3)	International Cinema 1
ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 472	(3)	Special Topics: Cultural Studies 2
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 477	(3)	Alternative Approaches to Media 2
ENGL 482	(3)	International Cinema 2
ENGL 512	(3)	Contemporary Studies in Literature and Culture
ENGL 585	(3)	Cultural Studies: Film
ENGL 586	(3)	Cultural Studies: Other Media
ENGL 587	(3)	Theoretical Approaches to Cultural Studies

3.10.13.15 Bachelor of Arts (B.A.) - Joint Honours Component English - Drama and Theatre (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honoursout to

consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (6 credits)

Dramatic Literature

3 credits in Dramatic Literature:

For a list of courses for the current academic year, please consult the Department of English web page <http://www.mcgill.ca/english/>.

History of the Theatre

3 credits in History of the Theatre:

Theatre History: Medieval and Early Modern

3.10.13.16 Bachelor of Arts (B.A.) - Joint Honours Component English - Literature (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and

ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 452	(3)	Studies in Old English
ENGL 553	(3)	Old English Literature

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century
ENGL 516	(3)	Shakespeare

Areas of English Literature

3 credits from one of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 310	(3)	Restoration and 18th Century Drama

18th Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 403	(3)	Studies in the 18th Century
ENGL 503	(3)	18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2 Victorian Poetry

ENGL 505 (3) 20th Century

Post-modernist

ENGL 320 (3) Postcolonial Literature
ENGL 333 (3) Development of Canadian Poetry 2
ENGL 339 (3) Canadian Prose Fiction 2
ENGL 443 (3) Contemporary Women's Fiction

Contemporary

ENGL 320 (3) Postcolonial Literature
ENGL 333 (3) Development of Canadian Poetry 2
ENGL 336 (3) The 20th Century Novel 2
ENGL 339 (3) Canadian Prose Fiction 2
ENGL 362 (3) Poetry of the 20th Century 2
ENGL 407 (3) The 20th Century
ENGL 408 (3) The 20th Century
ENGL 419 (3) Studies in 20th Century Literature
ENGL 421 (3) African Literature
ENGL 443 (3) Contemporary Women's Fiction

Theory

3 credits from a list of courses on Theory:

ENGL 317 (3) Theory of English Studies 1
ENGL 318 (3) Theory of English Studies 2
ENGL 319 (3) Theory of English Studies 3
ENGL 322 (3) Theories of the Text
ENGL 346 (3) Materiality and Sociology of Text
ENGL 352 (3) Theories of Difference

Department Offerings

6 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.13.17 Bachelor of Arts (B.A.) - Joint Honours Component English - Cultural Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed.

ENGL 352 (3) Theories of Difference

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.13.18 Admission Requirements to the Joint Honours Program – English Component

Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form. The application will take some time to prepare, and allowance for such preparation (at least several weeks) must be made in order to meet the application deadline. **M gental Off**

- Honours: [section 7.7.6: Honours Program in Environment](#)
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3.10.17 Gender, Sexuality, and Feminist Studies

3.10.17.1 Location

Institute for Gender, Sexuality, and Feminist Studies (IGSF)
3487 Peel Street, 2nd Floor
Montreal QC H3A 1W7
Telephone: 514-398-3911
Email: info.igsf@mcgill.ca
Website: mcgill.ca/igsf/programs/gsf

Adviser: Andrew Folco; andrew.folco@mcgill.ca

3.10.17.2 About Gender, Sexuality, Feminist, and Social Justice Studies

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS) is an interdisciplinary program that recognises social justice as a driving concept inherent to the study of gender, sexuality, and feminism. Social justice frameworks incorporate critical race studies, disability studies, and Indigenous studies into the examination of gender, sexuality, and feminism.

For further information, consult our [website](#).

3.10.17.3 Gender, Sexuality, and Feminist Studies Faculty

Faculty Lecturer

Alexandra Ketchum; B.A.(Wesl.), M.A., Ph.D.(McG.)

Assistant Professor

Roberto Benedicto; B.A.(Ateneo de Manila), M.A.(York), Ph.D.(Melb.) (*joint apt. with Art History and Communication Studies*)

Maria Hwang; B.A.(Oregon), M.A., Ph.D.(Brown) (*Joint apt. with East Asian Studies*)

Gender, Sexuality, Feminist, and Social Justice Studies Advisor

Student Representatives

Graduate (1)

Undergraduate (1)

Bachelor of Ar

ANTH 413 (3) Gender in Archaeology
ANTH 480* (3) Special Topic 5
ANTH 555* (3) Advanced Topics in Ethnology
ARCH 533* (3) New Approaches to Architectural History

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POLI 366*	(3)	Topics in Political Theory 1
POLI 422*	(3)	Developing Areas/Topics 2
POLI 423*	(3)	Politics of Ethno-Nationalism
POLI 432*	(3)	Selected Topics: Comparative Politics
POLI 444*	(3)	Topics in International Politics 2
PSYC 436	(3)	Human Sexuality and Its Problems
RELG 256	(3)	Women in Judaism and Islam
RELG 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender and Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses Christian Spirituality

15 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability

COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms

GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature

RELG 372	(3)	Hindu Goddesses
RELG 399*	(3)	Christian Spirituality
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
		Gender and W

GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1

SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

Note: Courses marked with an asterisk (*) are acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

3.10.17.7 Bachelor of Arts (B.A.) - Jt Honours Component Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)

The Joint Honours program offers a significant degree of analysis and depth of study into contemporary and historical critical issues centered on gender, sexuality, feminism, and social justice beyond the Major through required and complementary course work, intensive research, and seminars. The program enables students to explore the meanings and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Joint Honours program culminates in the completion of an Honours thesis, supervised by a faculty member whose approval is sought the year prior. The Colloquium requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others. Joint Honours students must maintain a program GPA of 3.30 and a CGPA of 3.00.

Students are advised to take GSFS 200 and GSFS 250 in their first year in the program, and GSFS 300 in their second year of the program. Students must take GSFS 495D1/D2 and GSFS 497D1/D2 in their last full year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Required Courses (15 credits)

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 495D1	(1.5)	Honours/Joint Honours Colloquium
GSFS 495D2	(1.5)	Honours/Joint Honours Colloquium
GSFS 497D1	(1.5)	Joint Honours Thesis
GSFS 497D2	(1.5)	Joint Honours Thesis

Complementary Courses (21 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

12 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1

GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
	(3)	Social Justice and Activism

ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography

HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
MUAR 250	(3)	Women Making Music
MUAR 399	(3)	Music and Queer Identity
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 446*	(3)	Current Issues in Political Philosophy
POLI 366*	(3)	Topics in Political Theory 1
POLI 422*	(3)	Developing Areas/Topics 2
POLI 423*	(3)	Politics of Ethno-Nationalism
POLI 432*	(3)	Selected Topics: Comparative Politics
POLI 444*	(3)	Topics in International Politics 2
PSYC 436	(3)	Human Sexuality and Its Problems
RELG 256	(3)	Women in Judaism and Islam
RELG 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 356	(3)	Gender and Sexuality in Hinduism
RELG 372	(3)	Hindu Goddesses
RELG 399*	(3)	Christian Spirituality
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

Note: Courses marked with an asterisk (*) are acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

3.10.18 Geography (GEOG)

3.10.18.1 Location

Burnside Hall, Room 705
805 Sherbrooke Street West
Montreal QC H3A 0B9
Telephone: 514-398-4951
Email: undergrad.geog@mcgill.ca
Website: mcgill.ca/geography

3.10.18.2 About Geography

The Geography Department offers programs in both **Arts** and **Science**. Refer to [Faculty of Science](#)

This concentration exposes students to various approaches to urban studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography.

This Minor concentration may be expanded into the Major Concentration Geography (Urban Studies).

Complementary Courses (18 credits)

18 credits selected as follows:

Group A

9-12 credits selected from:

GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before U3.

ARCH 515	(3)	Sustainable Design
ARCH 528	(3)	History of Housing

Art History & Communication Studies

COMS 425	(3)	Urban Culture and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

Political Science

POLI 318	(3)	Comparative Local Government
POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 222	(3)	Urban Sociology
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 506	(3)	Environmental Policy and Planning
URBP 551	(3)	Urban Design and Planning
URBP 556	(3)	Urban Economy: A Spatial Perspective

Revision, May 2021. End of revision.

3.10.18.7 Bachelor of Arts (B.A.) - Minor Concentration GIS & Remote Sensing (18 credits)

Revision, June 2021. Start of revision.

The Minor Concentration in GIS & Remote Sensing program provides B.A. students with the fundamentals of geospatial tools and technologies.

Required Courses (6 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 314	(3)	Geospatial Analysis

Complementary Courses (12 credits)

3 credits selected from:

COMP 202	(3)	Foundations of Programming
GEOG 333	(3)	Introduction to Programming for Spatial Sciences

3 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 414*	(3)	Advanced Geospatial Analysis

6 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
ESYS 300	(3)	Investigating the Earth System
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414*	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science

GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 551	(3)	Environmental Decisions

* may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

Revision, June 2021. End of revision.

3.10.18.8 Bachelor of Arts (B.A.) - Minor Concentration Health Geography (18 credits)

There is increasing consensus around the idea that health is not just an expression of individual characteristics but an interaction between the characteristics of the individual and the environments, both physical and social, to which one is exposed over a lifetime of daily living and working. Health outcomes vary dramatically by physical and social characteristics of places both within and between countries and these provide a wedge for our understanding of the factors that might be modified to improve the health of large groups of people. The B.A.; Minor Concentration in Health Geography introduces students to both local and global health issues and provides a skill set in spatial and statistical analyses of diverse health outcomes in populations.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change

Complementary Courses (6 credits)

3 credits from:

ENVR 200	(3)	The Global Environment Society, En
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GEOG 290 (1) Local Geographical Excursion

Complementary Courses (30 credits)

30 credits selected as follows:

Physical Geography

3 credits from:

GEOG 203 (3) Environmental Systems
 GEOG 272 (3) Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373 (3) Biometry
 GEOG 202 (3) Statistics and Spatial Analysis
 MATH 203 (3) Principles of Statistics 1
 PSYC 204 (3) Introduction to Psychological Statistics
 SOCI 350 (3) Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

GEOG 494 (3) Urban Field Studies
 GEOG 495 (3) Field Studies - Physical Geography
 GEOG 496 (3) Geographical Excursion
 GEOG 499 (3) Subarctic Field Studies

Analysis and Methodology

Revision, May 2021. Start of revision.

3 credits from:

GEOG 308 (3) Remote Sensing for Earth Observation
 GEOG 314 (3) Geospatial Analysis
 GEOG 351 (3) Quantitative Methods
 GEOG 414 (3) Advanced Geospatial Analysis
 GEOG 506 (3) Advanced Geographic Information Science
 GEOG 512 (3) Advanced Quantitative Methods in Social Field Research

Revision, May 2021. End of revision.

Geography

The remaining 18 credits are to be selected from Geography (GEOG) courses excluding GEOG 200 and GEOG 205. Of these 18 credits, at least 3 credits must be at the 400 level or above.

3.10.18.10 Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Studies) (36 credits)

This major concentration exposes students to various approaches to Urban Studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students majoring in Urban Studies, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods

Complementary Courses (27 credits)

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 536	(2)	Current Issues in Transportation 1
URBP 537	(2)	Current Issues in Transportation 2
URBP 551	(3)	Urban Design and Planning
URBP 556	(3)	Urban Economy: A Spatial Perspective

3.10.18.11 Bachelor of Arts (B.A.) - Honours Geography (61 credits)

The B.A. Honours Geography program is more concentrated and focused than the Major concentration.

In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in a Geography Honours program must maintain a program GPA of at least 3.30 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

Required Courses (16 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 290	(1)	Local Geographical Excursion
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research

Complementary Courses (45 credits)

45 credits selected as follows:

Introductory

12 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information on the Faculty of Arts website for more information.

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Additional Geography

18 credits of Geography (GEOG) courses selected in consultation with the Program Adviser.

Outside Geography

9 credits at the 300 or 400 level or above of courses taught by units other than Geography selected from the humanities, social and physical sciences or engineering that have been approved by the Program Adviser as related to the student's focus within Geography.

3.10.18.12 Bachelor of Arts (B.A.) - Honours Urban Studies (60 credits)

This program exposes students to various approaches to urban studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography.

The B.A. Honours Urban Studies program is more concentrated and focused than the Major concentration. In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in a Geography Honours program must maintain a program GPA of at least 3.30 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students in the Honours Urban Systems, the total number of credits permitted outside Arts and Science is 30. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (21 credits)

*NOTE: Students take either GEOG 425 or GEOG 494, but not both.

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 425*	(3)	Southeast Asia Urban Field Studies
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 494*	(3)	Urban Field Studies

Complementary Courses (39 credits)

39 credits selected as follows:

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Geography

12 credits from the following Geography (GEOG) courses:

* May be taken as required field course or complementary course, but credits from one group may not be double counted in the other.

** Students can choose one only from GEOG 210, GEOG 216, and GEOG 221.

GEOG 203	(3)	Environmental Systems
GEOG 210**	(3)	Global Places and Peoples
GEOG 216**	(3)	Geography of the World Economy
GEOG 221**	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power
GEOG 425*	(3)	Southeast Asia Urban Field Studies
GEOG 494*	(3)	Urban Field Studies

18 credits from the following courses:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before U3.

ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 528	(3)	History of Housing

Art History & Communication Studies

COMS 425	(3)	Urban Culture and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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Geography

GEOG 503	(3)	Advanced Topics in Health Geography
GEOG 504	(3)	Advanced Economic Geography
GEOG 507	(3)	Advanced Social Geography
GEOG 511	(3)	Advanced Political Geography

GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research
GEOG 525	(3)	Asian Cities in the 21st Century

History

HIST 353	(3)	History of Montreal Canada: Ethnicity
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In addition to the Faculty requirement that Joint Honours students maintain a minimum CGPA of at least 3.00, students in a Joint Honours Component Geography program must maintain a program GPA of at least 3.30.

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice

Complementary Courses (27 credits)

27 credits selected as follo

Panama Field Study Semester

Emeritus Professors

George Michael Woloch; B.A.(Yale), B.A., M.A.(Oxf.), Ph.D.(Johns 0 1a.1 Tf1 0 0 1 70.52 725.56 Tmy

Assistant Professors

Edward Dunsworth; B.A.(McG.), M.A.(Qu.), Ph.D.(Tor.)

Kristy Ironside; B.A., M.A.(Tor.), Ph.D.(Chic.)

Jeremy Tai; B.A.(NYU), M.A., Ph.D.(Calif.-Santa Cruz)

Darian Totten; B.A.(Chic.), M.A., Ph.D.(Stan.)

Faculty Lecturers

Naomi Kaloudis; B.A.(Saint Anselm Coll.), M.A., Ph.D.(Missouri)

Martin Sirois; B.A., M.A.(Montr.), M.A., Ph.D.(Princ.)

3.10.19.4 Bachelor of Arts (B.A.) - Minor Concentration History (18 credits)

The Minor Concentration History introduces students to the study of diverse cultures and societies around the world from antiquity to contemporary times. It is an excellent complement to the major concentrations offered in the Faculty of Arts. The Minor Concentration History is expandable to a Major Concentration History.

Students wishing to complete a history program are encouraged to consult a Program Adviser at the beginning of their first year, and to fill out a departmental program advising/audit form. For more information about the undergraduate programs in history, and for advising information and forms, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Complementary Courses (18 credits)

18 credits of history courses (HIST courses or selected courses offered in other units - see list below), of which no more than 6 credits may be at the 100- or 200-level.

All undergraduate-level HIST courses.

Courses Offered by Other Units

The following non-HIST courses may be counted as complementary courses toward a history program. Faculty regulations stipulate that a course may not be counted to

-3 credits from Group A

-3 credits from Group B

-3 credits from Group C

Temporal Breadth requirement:

-At least 3 credits focused on the period before 1800

-At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 may not be used to satisfy Temporal Breadth requirements.

Level requirement:

-Maximum 15 credits of complementary courses at the 200-level or lower

-Minimum 6 credits of 400- or 500- level courses. Note: students may use at most 3 credits of HIST 413 or 499 to fulfill this requirement.

Group A:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 212	(3)	Medieval Europe
HIST 214	(3)	Early Modern Europe
HIST 215	(3)	Modern Europe
HIST 216	(3)	Introduction to Russian History
HIST 221	(3)	United States since 1865
HIST 225	(3)	East Central and Southeastern Europe in 20th Century
HIST 250	(3)	Making Great Britain and Ireland

Group B:

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Indian Ocean World History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 210	(3)	Introduction to Latin American History
HIST 218	(3)	Modern East Asian History
HIST 275	(3)	Ancient Roman History

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HIST 292	(3)	History and the Environment
HIST 298	(3)	Topics in History
HIST 299	(3)	The Historian's Craft

All undergraduate-level HIST courses.

Courses offered by other units

The following non-HIST courses may be counted as complementary courses toward a history program. F

Group A:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 212	(3)	Medieval Europe
HIST 214	(3)	Early Modern Europe
HIST 215	(3)	Modern Europe
HIST 216	(3)	Introduction to Russian History
	(3)	United States since 1865

CLAS 406	(3)	Greek and Roman Historiography
JWST 240	(3)	The Holocaust
JWST 245	(3)	Jewish Life in the Islamic World
JWST 303	(3)	The Soviet Jewish Experience
JWST 311	(3)	Gender in Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 366	(3)	History of Zionism

Cognate course allowance:

6 credits of non-HIST courses directly related to the student's program may be counted as complementary courses for the program with signed Program Adviser permission.

Notes: 200-level cognate courses count against the 15-credit limit of 200-level courses allowed for the program. Cognate courses may not be used to replace 400-level or 500-level requirements. Courses listed in the complementary course list as HIST equivalent (e.g. CLAS 304) are counted as HIST courses, not as "cognate" courses.

3.10.19.7 Bachelor of Arts (B.A.) - Joint Honours Component History (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. The Joint Honours Component History is a flexible program that emphasizes breadth, depth as well as historical methods and research.

Students wishing to complete the Joint Honours History Component should consult a Program Adviser at the beginning of their first year to map out a course of study, and fill out a departmental program advising/audit form. For more information, visit the program's website: <http://www.mcgill.ca/history/undergraduate>. Students must also fulfill program requirements in the second honours component and should consult an adviser in that program.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Required Course (3 credits)

HIST 399	(3)	History and Historiography
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Complementary Courses (33 credits)

33 credits of history courses (HIST courses or selected courses offered in other units - see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 and HIST 399 may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- 6 credits honours seminar (500-level D1/D2)
- Minimum 3 additional credits 400-level or higher HIST courses
- Maximum 12 credits complementary courses at 200-level

GPA requirements - 3.30 in program courses, 3.0 (B) or higher in each program course, cGPA 3.0 or higher.

Group A:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 212	(3)	Medieval Europe

(3) Early Modern Europe

JWST 366 (3) History of Zionism

3.10.19.8 Bachelor of Arts (B.A.) - Minor Concentration Classics (18 credits)

The Minor Concentration in Classical Studies introduces students to the linguistic, historical and cultural dimensions of Greece and Rome. The Minor Concentration can be expanded to a Major Concentration in Classics.

Required Course (3 credits)

CLAS 201 (3) Greece and Rome

Complementary Courses (15 credits)

15 credits of Classics (CLAS) or related courses according to the following stipulations:

6 credits minimum of Ancient Greek or Latin.

CLAS 210	(3)	Introductory Latin 1
CLAS 212	(3)	Introductory Latin 2
CLAS 215	(6)	Intensive Introductory Latin
CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
CLAS 225	(6)	Intensive Introductory Ancient Greek
CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections
CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
	(3)	Advanced Ancient Greek: Themes

CLAS 312	(3)	Intermediate Latin 2
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 500	(3)	Classics Seminar

HIST 407	(3)	Topics in Ancient History
HIST 450	(3)	Ancient History Methods
HIST 469	(3)	Alexander and Hellenistic World
HIST 475	(3)	Topics: Roman History
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
RELG 210	(3)	Jesus of Nazareth
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 326	(3)	Christians in the Roman World

Other courses may be counted towards this requirement with the approval of the program adviser.

Minimum 3 credits in classical art or archaeology:

ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 240	(3)	Introduction to Classical Archaeology
CLAS 345	(3)	Study Tour: Greece
CLAS 348	(3)	Topics: Classical Archaeology
CLAS 349	(3)	Archaeology Fieldwork: Italy

Other courses may be counted towards this requirement with the approval of the program adviser.

NOTE: Maximum 18 credits of complementary courses at the 200 level.

Note: a maximum total of 18 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) may be counted toward the program.

3.10.19.11 Bachelor of Arts (B.A.) - Joint Honours Component Classics (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". The Joint Honours Component Classics emphasizes the study of ancient Greek and Latin: proficiency in both languages is required, advanced coursework is required in at least one of the classical languages. The program is designed for students who wish to pursue graduate studies in classics or related disciplines (such as ancient History), or for graduate programs that require proficiency in ancient languages.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (12 credits)

CLAS 201	(3)	Greece and Rome
CLAS 310	(3)	Intermediate Latin 1
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 500	(3)	Classics Seminar

Complementary Courses (24 credits)

24 credits of Classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
		Advanced Ancient Greek: Authors

HIST 481	(3)	History of Bangladesh and Pakistan
ISLA 305	(3)	Topics in Islamic History
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 489	(3)	Special Topics 6
ISLA 555	(3)	Urdu Poetry
ISLA 581	(3)	Special Topics 1
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 353	(3)	Gandhi: His Life and Thought
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 388	(3)	Introduction to Sikhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
SOCI 370	(3)	Sociology: Gender and Development
SOCI 550	(3)	Developing Societies

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Students may apply up to 6 credits in South Asian language study, with approval from the adviser.

Stream 2: Language

Either 18 credits in one of the following languages: Persian, Sanskrit, Tibetan, or Urdu-Hindi, from the courses listed below.

Or 18 credits of combined language study from courses listed below, consisting of 6 credits of one of Persian, Sanskrit, Tibetan, or Urdu-Hindi and 12 credits of another South Asian language from the courses listed below.

Note: Students should refer to the eCalendar to confirm any prerequisites for the following courses.

PERSIAN

Revision, May 2021. Start of revision.

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Revision, May 2021. End of revision.

SANSKRIT

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit

TIBETAN

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

URDU-HINDI

Revision, April 2021. Start of revision.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Revision, April 2021. End of revision.

3.10.20 Information Studies (GLIS)

3.10.20.1 Location

Sessional Lecturers

Gordon Burr; B.A., M.L.I.S. (McG.)

Lidia Kruk; B.A.(C' dia), M.L.I.S.(McG.)

Isabelle Lamoureux; M.L.I.S.(McG.)

Daniela Oliveira; B.(Librarianship)(São Paulo), M.L.I.S.(McG.)

Anton Stiglic; B.Sc., M.Sc.(Montr.), M.B.A.(Sher.)

3.10.21 Institute for the Study of Canada

3.10.21.1 Location

McGill Institute for the Study of Canada

840 ave du Docteur-Penfield, room 102

Montreal QC H3A 0G2

Telephone: 514-398-8346

Email: misc.iecm@mcgill.ca

W

Revision, June 2021. End of revision.

3.10.21.7 Bachelor of Arts (B.A.) - Minor Concentration Indigenous Studies (18 credits)

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Required Courses (6 credits)

INDG 200	(3)	Introduction to Indigenous Studies
INDG 401	(3)	Interdisciplinary Seminar in Indigenous Studies

Complementary Courses (12 credits)

A maximum of 3 complementary course credits at the 200-level. A maximum of 6 credits from any given discipline with the exception of Indigenous Studies (INDG) courses.

Anthropology

ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

Canadian Studies

CANS 306	(3)	Issues in Native Studies
CANS 315	(3)	Indigenous Art and Culture

English

ENGL 297	(3)	Special Topics of Literary Study
ENGL 440	(3)	First Nations and Inuit Literature and Media

Gender, Sexuality, and Feminist Studies

GSFS 307	(3)	Indigenous Feminisms
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HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
INDG 200	(3)	Introduction to Indigenous Studies
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

300-400 Levels

9-15 credits in the interdisciplinary Canadian Studies (CANS) courses chosen from:

CANS 300	(3)	Topics in Canadian Studies 1
CANS 301	(3)	Topics in Canadian Studies 2
CANS 307	(3)	Canada in the World
CANS 308	(3)	Sex and Gender in Canada
CANS 310	(3)	Canadian Cultures: Context and Issues
CANS 311	(3)	Topics in Canadian Public Affairs 1
CANS 312	(3)	Topics in Canadian Public Affairs 2
CANS 315	(3)	Indigenous Art and Culture
CANS 401	(3)	Canadian Studies Seminar 1
CANS 402	(3)	Canadian Studies Seminar 2
CANS 404	(3)	Canadian Studies Seminar 4
CANS 405	(3)	Canadian Studies Seminar 5
CANS 406	(3)	Canadian Studies Seminar 6
CANS 408	(3)	Individual Reading Course
CANS 412	(3)	Canada and Americas Seminar
CANS 413	(3)	Canada and Quebec Seminar
CANS 499	(3)	Internship - Canadian Studies

6-12 credits chosen from:

ANTH 338	(3)	Native Peoples of North America
ARTH 302	(3)	Aspects of Canadian Art
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Government Policy Towards Business
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 393	(3)	Canadian Cinema
FREN 315	(3)	Cinéma québécois
		Geography from:

HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
LING 325	(3)	Canadian English
POLI 336	(3)	Le Québec et le Canada
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 417	(3)	Health Care in Canada

P

3.10.22.33 Bachelor of Arts (B.A.) - Minor Concentration History and Philosophy of Science (18 credits)

History and Philosophy of Science at McGill is an interdisciplinary program that aims to provide students with an understanding of science through the study of both its historical development and of some of the fundamental philosophical principles upon which it rests. For more information about the program and events, please visit <http://www.mcgill.ca/hpsc>.

Complementary Courses (18 credits)

18 credits with a maximum of 9 credits at the 200 level selected as follows:

Philosophy of Science

6-12 credits of courses focused on the Philosophy of Science with no more than 6 credits at the 200 level chosen from the following:

Communication Studies (COMS)

COMS 210 (3) Introduction to Communication Studies

History and Philosophy of Science (HPSC)

HPSC 300 (3) Independent Studies: History and Philosophy of Science
 HPSC 500 (3) Interdisciplinary Seminar: History & Philosophy of Science

Philosophy (PHIL)

PHIL 210 (3) Introduction to Deductive Logic 1
 PHIL 221 (3) Introduction to History and Philosophy of Science 2
 PHIL 306 (3) Philosophy of Mind
 PHIL 310 (3) Intermediate Logic
 PHIL 311 (3) Philosophy of Mathematics
 PHIL 340 (3) Philosophy of the Social Sciences 1
 PHIL 341 (3) Philosophy of Science 1
 PHIL 350 (3) History and Philosophy of Ancient Science
 PHIL 411 (3) Topics in Philosophy of Logic and Mathematics
 PHIL 440 (3) Philosophy of Social Sciences 2
 PHIL 441 (3) Philosophy of Science 2
 PHIL 453 (3) Ancient Metaphysics and Natural Philosophy

Religious Studies (RELG)

RELG 340 (3) Religion and the Sciences

Sociology (SOCL)

SOCL 338 (3) Introduction to Biomedical Knowledge

History of Science

6-12 credits of courses focused on the History of Science with no more than 6 credits at the 200 level chosen from the following:

Anthropology (ANTH)

ANTH 359 (3) History of Archaeological Theory

Biology (BIOL)

BIOL 210 (3) Perspectives of Science

History (HIST)

HIST 249 (3) Health and the Healer in Western History
 HIST 319 (3) The Scientific Revolution
 HIST 335 (3) Science and Medicine in Canada
 HIST 350 (3) Science and the Enlightenment
 HIST 356 (3) Medicine in the Medieval West
 HIST 410 (3) Topics in History of Science
 HIST 452 (3) Topics in Pre-Modern Medicine
 HIST 457 (3) Topics in Medical History
 HIST 558 (3) Modern Medicine: Seminar
 HIST 559 (3) Modern Medicine: Research
 HIST 567D1 (3) Seminar: Medieval Medicine
 HIST 567D2 (3) Seminar: Medieval Medicine

History and Philosophy of Science (HPSC)

HPSC 300 (3) Independent Studies: History and Philosophy of Science
 HPSC 500 (3) Interdisciplinary Seminar: History & Philosophy of Science

Islamic Studies (ISLA)

ISLA 345 (3) Science and Civilization in Islam

Mathematics (MATH)

MATH 338 (3) History and Philosophy of Mathematics

Psychology (PSYC)

PSYC 403 (3) Modern Psychology in Historical Perspective

3.10.22.4 Industrial and Labour Relations

3.10.22.4.1 About Industrial and Labour Relations

Industrial and Labour Relations is an interdisciplinary program, enabling students in the Faculty of Arts to study Labour-Management Relations. Students take courses in Economics, Labour-Management Relations, Organizational Behaviour, and Sociology. These courses examine the economic and social forces affecting employer-employee relations in both national and global contexts.

Graduates from this program can apply to the *Ordre des conseillers en ressources humaines agréés* (CRHA; www.portailrh.org), a professional order that certifies human resource professionals in the province of Quebec. Proficiency in French is required for certification.

Further information for new and returning students is available at mcgill.ca/indr.

3.10.22.4.2 Industrial and Labour Relations Faculty

Program Committee Chair

A. Masi; A.B.(Colgate), A.M., Ph.D.(Brown) (*Desautels Faculty of Management*)

Program Committee

L. Baccini; M.A.(Bologna), Ph.D.(Trinity Coll., Dublin) (*Political Science*)

B. Eidlin; B.A.(Oberlin), M.A., Ph.D.(Calif., Berk.) (*Sociology*)

Program Committee

J. Engle-Warnick; B.S.E.E.(UAkron), M.B.A.(Carn. Mell), Ph.D.(Pitt.) (*Economics*)

C. Westgate; B.A., M.B.A.(McM.) (*Desautels Faculty of Management*)

3.10.2243 Bachelor of Arts (B.A.) - Faculty Program Industrial & Labour Relations (54 credits)

The Faculty Program in Industrial and Labour Relations provides students with a basic knowledge of the institutions and practices as well as the principal social and economic forces that underlie employment relationships. The program is composed of 54 credits of courses drawn from the Departments of Economics and Sociology within the Faculty of Arts and from Labour-Management Relations within the Desautels Faculty of Management.

Credits outside Arts and Science: Students in the Faculty Program in Industrial and Labour Relations may take no more than 30 credits in courses outside of the Faculties of Arts and of Science. This total includes required and complementary courses taken for the program and elective courses. Students should take at least 12 credits in both Sociology and Economics. Moreover, in the U1 year a student should take at most only one 3-credit elective course in the Desautels Faculty of Management in addition to the required courses, INDR 294 and MGCR 222.

Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements."

Continuance in the Program:

To remain in the program beyond the first year, students must take the six "U1 Required Courses" listed below during their first year and earn a 2.50 GPA in the U1 required courses.

Note: Continuing Studies courses may not be used to fulfil IR program requirements. Similarly, courses in Continuing Studies taken before entering the program may not be used to fulfil program requirements.

Required Courses (33 credits)

U1

INDR 294	(3)	Introduction to Labour-Management Relations
MGCR 222	(3)	Introduction to Organizational Behaviour
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry

U2

ECON 306	(3)	Labour Markets and Wages
INDR 494	(3)	Labour Law
ORGB 423	(3)	Human Resources Management
SOCI 304	(3)	Sociology of the Welfare State
SOCI 420	(3)	Organizations

U3

INDR 492	(3)	Globalization and Labour Policy
INDR 496	(3)	Collective Bargaining

Complementary Courses (21 credits)

U1

6 credits from the following:

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory

Note: ECON 230D1/D2 or ECON 208 and ECON 209.

U2

6 credits of statistics courses from the following:

Note: either from Sociology or Economics, but not both.

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis

U2 or U3

3-9 credits from the following:

ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 310	(3)	Introduction to Behavioural Economics
ECON 313	(3)	Economic Development 1
ECON 337	(3)	Introductory Econometrics 1
ECON 338	(3)	Introductory Econometrics 2
ECON 426	(3)	Labour Economics
ECON 440	(3)	Health Economics

0-6 credits from the following:

HIST 373	(3)	Canadian Labour History
INDR 449	(3)	Occupational Health and Safety
INDR 499	(3)	Internship in Industrial Relations
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 409	(3)	Organizational Research Methods
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management
SOCI 321	(3)	Gender and Work
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 386	(3)	Contemporary Social Movements
SOCI 495	(3)	Social Problems and Conflicts

3.10.22.5 Liberal Arts

3.10.22.5.1 About Liberal Arts

The Liberal Arts program represents a contemporary approach to the traditional concept of a broad, non-specialist undergraduate education in the humanities that is tailored to the environment of a research-intensive university. The program recognizes the value of a classical liberal arts education, yet approaches the liberal arts from a global perspective, emphasizing diversity and difference, and providing new ways of engaging the liberal arts.

The program exposes students to texts from, and histories of, a wide range of cultures and societies. Students will be able to choose from three intellectual streams:

- (a) at least 6 credits from the 200-level introductory courses within one stream;
- (b) at least 15 credits must be from courses at the 300 level or above; at least 6 credits must be at the 400 level or above (language courses cannot count toward satisfying this requirement);
- (c) no more than 18 credits can be from a single discipline;
- (d) geographical area: at least 6 credits in coursework primarily emphasizing Africa and/or Asia, and at least 6 credits in coursework emphasizing Europe and/or the Americas or Australasia, and
- (e) historical periods: at least 6 credits in coursework primarily emphasizing texts or history from before 1500, and at least 6 credits in coursework primarily emphasizing texts or history from 1500-1900 (a given course may satisfy both the geographical area and the historical period requirement).

Stream 1: Literature and the Arts (including Theatre & Architecture)

This stream is designed for students whose primary interests lie in the study of literature and the arts across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind: (a) courses taught in the "core" disciplines in this stream, and (b) courses taught in other disciplines which are nevertheless pertinent to this stream. Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

RELG 203	(3)	Bible and Western Culture
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

Music: up to 6 credits of Music courses (labelled MUAR) can be selected in consultation with the Program Director.

List B (24 credits)

Students in the Literature and the Arts (including Theatre and Architecture) stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Architecture (ARCH), Art History and Communication Studies (labelled ARTH), Classics (CLAS), English (ENGL), French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), Languages, Literatures, and Cultures (LLCU), and Russian Studies (RUSS); and

- any course (other than a course dedicated to teaching a language) at the 200 level or above in Jewish Studies (JWST) listed in the eCalendar under the headings “Biblical Studies,” “Languages and Literatures – Hebrew” and “Language and Literature – Yiddish.”

Students in this stream may also choose a maximum of 9 credits from the following list:

AFRI 401	(3)	Swahili Language and Culture
ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARTH 352	(3)	Feminism in Art and Art History
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 569	(3)	Advanced Topics: Japanese Literature
HIST 345	(3)	History of Italian Renaissance
HIST 405	(3)	Topics in Intellectual History
HIST 411	(3)	Topics in African History
HIST 426	(3)	Topics: British Cultural History
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 585	(3)	Arab Women's Literature
LIBA 395	(3)	Individual Reading Course
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2
RELG 210	(3)	Jesus of Nazareth
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2

REL373(0411s)TjProgram.5.864 552.6467(REL3536)611s

HIST 208	(3)	Introduction to East Asian History
HIST 213	(3)	World History, 600-2000
HIST 214	(3)	Early Modern Europe
HIST 215	(3)	Modern Europe
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

List B (24 credits)

Students in the History and Culture stream may choose from any course at the 200 level or above in the following departments and programs: History (HIST), Political Science (POLI), Sociology (SOCI) and Art History and Communication Studies (labelled COMS).

Students in this stream may also choose a maximum of 9 credits from the following list:

Socio-Cultural

EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 370	(3)	History of Sexuality in Japan
EAST 385	(3)	Global Korea
EAST 390	(3)	The Chinese Family in History
EAST 462	(3)	Japan in Asia
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
FREN 336	(3)	Histoire de la langue française
GERM 331	(3)	Germany after Reunification
GERM 357	(3)	German Culture in European Context
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 400	(3)	Interdisciplinary Seminar: Contemporary German Studies
HISP 437	(3)	Colonial / Postcolonial Latin America
ISLA 310	(3)	Women in Islam
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East

ISLA 360Si Fds.16 Tm((3v2 0B) 1 221.w 0 0Si16 Fds.16 Tm((3v2 0m(Special314 Tm(ISLA d2i 426.i 426.iL.0t55)Tj1 0.16 Tmh.m(d60t55)Tjml4

JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
LIBA 395	(3)	Individual Reading Course

3.10.2254 Bachelor of Arts (B.A.) - Honours Liberal Arts (60 credits)

The Honours in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students are able to choose among three intellectual streams: literature and the arts (including theatre and architecture); history, culture and society; and philosophy.

Students in this stream may also choose a maximum of 12 credits from the following list:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 327	(3)	Anthropology of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 340	(3)	Middle Eastern Society and Culture
		Women in Cross-c0 1 221.F837337

ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ITAL 230	(3)	Understanding Italy
ITAL 295	(3)	Italian Cultural Studies
ITAL 356	(3)	Medieval Discourses on Love
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 400	(3)	Italian Regional Identities
ITAL 416	(3)	The Twentieth Century
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
LIBA 395	(3)	Individual Reading Course
LLCU 212	(3)	Understanding Digital and Social Media
LLCU 250	(3)	History and Future of the Book
LLCU 311	(3)	Digital Studies/Citizenry
RELG 201	(3)	Religions of the Ancient Near East
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 334	(3)	Theology of History
RELG 338	(3)	Women and the Christian Tradition

RELG 340	(3)	Religion and the Sciences
RELG 356	(3)	Gender and Sexuality in Hinduism
RELG 375	(3)	Religion, Politics and Society
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RUSS 217	(3)	Russia's Eternal Questions
RUSS 229	(3)	Introduction to Russian Folklore
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 454	(3)	Narratives of Desire

Stream 3: Philosophy and Religion

This stream is designed for students whose primary interests lie in the study of philosophy and religion across geographical boundaries and historical traditions.

Approved courses are listed below. The courses appearing in List A are introductory in nature and should be taken early in the program. The courses appearing in List B are of two kind: (a) courses taught in the "core" disciplines in this stream, and (b) courses taught in other disciplines which are nevertheless pertinent to this stream. Though wide ranging, the choice of courses is limited by the stream's orientation, as well as by the overall objectives of the Liberal Arts Program.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 51 credits as follows:

9 credits from the courses in List A

42 credits from the courses in List B

List A (9 credits)

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 240	(3)	Political Philosophy 1
PHIL 332	(3)	Philosophy of Religion 1
POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought
RELG 201	(3)	Religions of the Ancient Near East
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 321	(3)	Western Intellectual Tradition
RELG 334	(3)	Theology of History
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 373	(3)	Christian Ethics of Love
RELG 380	(3)	Religion, Philosophy, Modernity

List B (42 credits)

Students in the Philosophy and Religion stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Philosophy (PHIL), Religious Studies (RELG), Catholic Studies (CATH), Islamic Studies (ISLA), and Jewish Studies (JWST); and
- any course in Political Science (POLI) listed in the eCalendar under the heading "Political Theory."

Students in this stream may also choose a maximum of 12 credits from the following list:

ANTH 209	(3)	Anthropology of Religion
ANTH 318	(3)	Globalization and Religion
CLAS 203	(3)	Greek Mythology
CLAS 303	(3)	Ancient Greek Religion
EAST 563	(3)	Images, Ideograms, Aesthetics
ENVR 203	(3)	Knowledge, Ethics and Environment Environmental

Required Course (3 credits)

MDST 400 (3) Interdisciplinary Seminar in Medieval Studies

Complementary Courses (15 credits)

ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 516	(3)	Medieval Islam, 13th-15th Century

Jewish Studies

JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Languages, Literatures, and Cultures

ITAL 355	(3)	Dante and the Middle Ages
ITAL 356	(3)	Medieval Discourses on Love
ITAL 465	(3)	Religious Identities in Italy

Langue et littérature françaises

FREN 455*	(3)	La littérature médiévale 1
FREN 456*	(3)	La littérature médiévale 2

** Note: Course taught and all course

Courriel : daniel.beland@mcgill.ca | Tel: 514-398-6441

Coordonnateur scientifique des études québécoises: Stéphan Gervais

Bureau: Pavillon Ferrier, 840 av

QCST 200	(3)	Introduction to the Study of Quebec
QCST 300	(3)	Quebec Culture and Society
QCST 440	(3)	Contemporary Issues in Quebec

Complementary Courses / Cours Complémentaires (9 credits)

De ces 9 crédits, 6 doivent être des cours provenant du tronc commun ou des cours approuvés par la direction du programme.

3 crédits doivent provenir d'un cours dont la langue d'enseignement est le français et peuvent provenir d'un cours de français langue seconde.

Au moins 6 des 9 crédits complémentaires doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).1 Tf()Tj/F1 directeur du

FREN 595 (3) Séminaire avancé de recherche

History / Histoire

HIST 202 (3) Survey: Canada to 1867
HIST 203 (3) Survey: Canada since 1867
HIST 223 (3) Indigenous Peoples and Empires
HIST 333 (3) Indigenous Peoples and French
HIST 335 (3) Science and Medicine in Canada
HIST 353 (3) History of Montreal
HIST 364 (3) Canada 1914-1945
HIST 367 (3) Canada since 1945
HIST 580D1 (3) European and Native-American Encounters
HIST 580D2 (3) European and Native-American Encounters

Political Science / Science politique

POLI 221 (3) Government of Canada
POLI 222 (3) Political Process and Behaviour in Canada
POLI 226 (3) La vie politique québécoise
POLI 326 (3) Provincial Politics
POLI 336 (3) Le Québec et le Canada
POLI 342 (3) Canadian Foreign Policy
POLI 378 (3) The Canadian Judicial Process
POLI 417 (3) Health Care in Canada
POLI 426 (3) Partis politiques et comportements électoraux au Québec

Sociology / Sociologie

SOCI 230 (3) Sociology of Ethnic Relations
SOCI 475 (3) Canadian Ethnic Studies Seminar

3.10.22.8 Social Entrepreneurship

About Social Entrepreneurship PrSo 0 1 68.52 256.74146 Tm Pr 022.8

3.10.22.92 World Cinemas (FILM) Faculty**Program Committee Chair**

Ara Osterweil; B.A., M.A.(NYU), Ph.D.(Calif., Berk.) (*English*)

Program Committee

A. Farah; M.A.(UQAM), Ph.D.(UQAM/ENS Lyon) (*Département des littératures de langue française, de traduction et de création*)

Y. Furuhashi; Ph.D.(Brown) (*East Asian Studies*)

G. Minghelli; M.A., Ph.D.(Johns Hop.) (*Languages, Literatures, and Cultures*)

D. Nystrom; Ph.D.(University of Virginia) (*English*)

I. Türeli; B.Arch.(ITU, Turkey), A.A.Dipl.(A.A.), Ph.D.(Calif., Berk.) (*School of Architecture*)

3.10.22.93 Bachelor of Arts (B.A.) - Minor Concentration World Cinemas (18 credits)

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

* Take either EAST 279 or LLCU 279.

EAST 279*	(3)	Introduction to Film History
ENGL 277	(3)	Introduction to Film Studies
LLCU 279*	(3)	Introduction to Film History

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

CANS 300	(3)	Topics in Canadian Studies 1
EAST 353	(3)	Approaches to Chinese Cinema
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 368	(3)	Asian Genre Cinemas
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 454	(3)	Topics: Chinese Cinema
EAST 467	(3)	Topics: Japanese Cinema
EAST 564	(3)	Structures of Modernity: Asia
ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 354	(3)	Sexuality and Representation
ENGL 363	(3)	Studies in the History of Film 3
ENGL 366	(3)	Film Genre
ENGL 374	(3)	Film Movement or Period
ENGL 379	(3)	Film Theory

ENGL 381	(3)	A Film-Maker 1
ENGL 382	(3)	International Cinema 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 393	(3)	Canadian Cinema
ENGL 450	(3)	Film Aesthetics
ENGL 451	(3)	A Period in Cinema
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 479	(3)	Philosophy of Film
ENGL 480	(3)	Studies in History of Film 1
ENGL 481	(3)	A Film-Maker 2
ENGL 482	(3)	International Cinema 2
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 492	(3)	Image and Text
ENGL 585	(3)	Cultural Studies: Film
FILM 499	(3)	Internship: World Cinemas
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
GERM 357	(3)	German Culture in European Context
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
GERM 373	(3)	Weimar German Cinema
HISP 340	(3)	Latin American Cinema
HISP 341	(3)	Spanish Cinema
HIST 435	(3)	Topics in South Asian History
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film
LLCU 300	(3)	Cinema and the Visual
MUHL 330	(3)	Music and Film
PLAI 500	(3)	Advanced Interdisciplinary Humanities Seminar
RUSS 213	(3)	Introduction to Soviet Film
RUSS 395	(3)	Soviet Cinema: Art and Politics

3.10.23 International Development

3.10.23.1 Location

Institute for the Study of International Development

Peterson Hall, Room 126
3460 McTavish Street
Montreal QC H3A 0E6
Telephone: 514-398-4804
Email: ids@mcgill.ca
Website: mcgill.ca/isid

Adviser: Lisa Stanischewski, lisa.stanischewski@mcgill.ca

3.10.23.2 About International Development

McGill's Institute for the Study of International Development (ISID) works to improve people's lives through cutting edge research, training, and communication that accelerates global sustainable development. It does this by educating successive generations of socially responsible and politically engaged students, developing intellectual capacity, and conducting leading edge research that is relevant for policymaking. Equally important, ISID is committed to connecting our teaching and research with the decision makers and principal actors tackling today's most pressing issues by supporting and engaging with NGOs, governments, community organizations, private sector actors, and civil society more broadly, working to increase our collective capacity for achieving sustainable development that will lead to economic and social improvements across the globe.

3.10.23.3 International Development Studies (INTD)

3.10.23.3.1 About International Development Studies

The International Development Studies (IDS) program is designed for those students who wish to take advantage of the resources available at McGill to pursue an interdisciplinary program of study focusing on the problems of the developing countries.

Most courses above the 200 level have prerequisites. Although these may be waived by instructors in some cases, students are urged to confirm their eligibility for courses when they prepare their programs of study. Note that certain courses (especially those in Management) may not be available owing to space limitations. Students should check the [Class Sc](#)

3.10.23.33 Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)

The B.A.; Minor Concentration in International De

GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 213	(3)	World History, 600-2000
HIST 218	(3)	Modern East Asian History
HIST 223	(3)	Indigenous Peoples and Empires
HIST 309	(3)	History of Latin America to 1825
HIST 317	(3)	Themes in Indian Ocean World History
HIST 333	(3)	Indigenous Peoples and French
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914

Ae42ua12.949 34 Themes in Latin American History

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law

POLI 324

(3)

Developing Areas/Africa
Developing Areas/T

SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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3.10.23.34 Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)

The B.A.; Major Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Course Selection Guidelines for the Overall Program

1. At least 18 of the 36 credits must be at the 300 level or above.
2. At least 9 credits must be from INTD courses.
3. Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (12 credits)

ECON 208	(3)	Microeconomic Analysis and Applications Economic De
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Agriculture

AGRI 411 (3) Global Issues on Development, Food and Agriculture

Agricultural Economics

AGEC 430 (3) Agriculture, Food and Resource Policy

AGEC 442 (3) Economics of International Agricultural Development

Anthropology

ANTH 206 (3) Environment and Culture

ANTH 209 (3) Anthropology of Religion

ANTH 222 (3) Legal Anthropology

ANTH 227 (3) Medical Anthropology

ANTH 308 (3) Political Anthropology 01

ANTH 318 (3) Globalization and Religion

ANTH 322 (3) Social Change in Modern Africa

ANTH 326 (3) Anthropology of Latin America

ANTH 327 (3) Anthropology of South Asia

ANTH 329 (3) Modern Chinese Society and Change

ANTH 337 (3) Mediterranean Society and Culture

ANTH 338 (3) Native Peoples of North America

ANTH 339 (3) Ecological Anthropology

ANTH 340 (3) Middle Eastern Society and Culture

ANTH 341 (3) Women in Cross-cultural Perspective
Gender

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

Southe 7

HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding

POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods

3-6 credits from the following: *

Anthropology

ANTH 358	(3)	The Process of Anthropological Research
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Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

3.10.23.35 Bachelor of Arts (B.A.) - Honours International Development Studies (57 credits)

The B.A.; Honours in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international dev

SOCI 254 (3) Development and Underdevelopment

Thematic

30-33 credits from the following:

Agriculture

AGRI 411 (3) Global Issues on Development, Food and Agriculture

Agricultural Economics

AGEC 430 (3) Agriculture, Food and Resource Policy

AGEC 442 (3) Economics of International Agricultural Development

Anthropology

ANTH 206 (3) Environment and Culture

ANTH 209 (3) Anthropology of Religion

ANTH 222 (3) Legal Anthropology

ANTH 227 (3) Medical Anthropology

East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 213	(3)	World History, 600-2000
HIST 218	(3)	Modern East Asian History

HIST 223	(3)	Indigenous Peoples and Empires
HIST 309	(3)	History of Latin America to 1825
HIST 317	(3)	Themes in Indian Ocean World History
HIST 333	(3)	Indigenous Peoples and French
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
		Topics in International Dev

ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East

POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	Worlds and Social Change Globalization

Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

3.10.23.36 Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)

The B.A.; Joint Honours - International Development Studies component focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable). Honours students must maintain a CGPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. At least 18 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.
- 2.

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

Developing

ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy Macroeconomic Analysis and
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History

Note: Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 213	(3)	World History, 600-2000
HIST 218	(3)	Modern East Asian History
HIST 223	(3)	Indigenous Peoples and Empires
HIST 309	(3)	History of Latin America to 1825
HIST 317	(3)	Themes in Indian Ocean World History
HIST 333	(3)	Indigenous Peoples and French
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 497	(3)	Advanced Topics in International Development
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Islamic Studies

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400 (3) Policy and Practice for Refugees

Methods (6 credits)

6 credits from the following:*

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

Anthropology

ANTH 358 (3) The Process of Anthropological Research

Economics

ECON 227D1 (3) Economic Statistics

ECON 227D2 (3) Economic Statistics

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ANTH 322	(3)	Social Change in Modern Africa
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa

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Islamic Studies

Revision, April 2021. Start0 1 revision.

(4.5)	Introductory0Arabic
(4.5)	Introductory0Arabic
(3)	
(3)	History: Middle-East21798-1918

Revision, April 2021. End 1 revision.

Political Science

* Note: Course is counted only when African materials are taught.

Developing0Areas/Introduction

POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

3.1024.14 Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

9 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies
HIST 579D1	(3)	Seminar: African History
HIST 579D2	(3)	Seminar: African History

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa
HIST 382	(3)	History of South Africa Independence 201

Revision, April 2021. Start of revision.

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918

Revision, April 2021. End of revision.

Political Science

* Note: Course is counted only when African materials are taught. Admission to this course will be subject to the Political Science departmental requirements and approval of the Departmental Honours Adviser. Priority will be given to Political Science students.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

African Studies (AFRI) Related Pr

To register for a WIMES program, you must have been offered admission into a bachelor's program at McGill; for more information, please refer to mcgill.ca/applying.

3.10.24.23 World Islamic and Middle East Studies (ISLA) Faculty

ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 523D1	()	
ISLA 523D2	()	
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2
ISLA 526	(3)	Colloquial Arabic

Revision, April 2021. End of revision.

3.10.24.25 Bachelor of Arts (B.A.) - Minor Concentration Persian Language (18 credits)

The Minor Concentration in Persian Language provides students with comprehensive training in listening, speaking, reading, and writing in Persian.

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3.10.24.27 Bachelor of Arts (B.A.) - Minor Concentration Urdu Language (18 credits)

The Minor Concentration in Urdu Language provides students with comprehensive training in listening, speaking, reading, and writing in Urdu.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses**Revision, April 2021. Start of revision.**

18 credits of Urdu language (3 levels) from the list below.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2
ISLA 555	(3)	Urdu Poetry

Revision, April 2021. End of revision.**3.10.24.28 Bachelor of Arts (B.A.) - Minor Concentration World Islamic & Middle East Studies (18 credits)**

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the languages, textual traditions, and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits at the 100-/200 level, in non-language ISLA courses;

6 credits at the 300 level, in non-language ISLA courses;

9 credits at any level. If non-language courses are selected, no more than 6 credits overall at the 100-200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

ISLA 100/200-Level**Revision, May 2021. Start of revision.**

3 credits from:

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi

Revision, May 2021. End of revision.**ISLA 300 Level and Higher**

6 credits from:

- | | | |
|----------|-----|--------------------|
| ISLA 310 | (3) | Women in Islam |
| ISLA 320 | (3) | Art of Islam |
| | | Lower Intermediate |

ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 499	(3)	World Islamic and Middle East Studies Internship
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
ANTH 340	(3)	Middle Eastern Society and Culture
HIST 240	(3)	Modern History of Islamic Movements
HIST 339	(3)	Arab-Israeli Conflict
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 366	(3)	History of Zionism
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
RELG 204	(3)	Judaism, Christianity and Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

3.10.24.29 Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (36 credits)

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Revision, April 2021. End of revision.

Urdu

Revision, April 2021. Start of revision.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Revision, April 2021. End of revision.

ISLA 100-/200-Le

ISLA 400-/500-Level

6 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 526	(3)	Colloquial Arabic
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

6-9 credits at any level, including ISLA 499, or more language courses (from the language lists above), but no more than 6 credits overall at the 100/200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
ANTH 340	(3)	Middle Eastern Society and Culture
HIST 240	(3)	Modern History of Islamic Movements
HIST 339	(3)	Arab-Israeli Conflict
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature

JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture

ISLA 525 (3) Advanced Arabic 2

Revision, April 2021. End of revision.

Persian

Revision, May 2021. Start of revision.

ISLA 241D1 (3) Introductory Persian
ISLA 241D2 (3) Introductory Persian
ISLA 342D1 (3) Lower Intermediate Persian
ISLA 342D2 (3) Lower Intermediate Persian
ISLA 443D1 (3) Upper Intermediate Persian
ISLA 443D2 (3) Upper Intermediate Persian
ISLA 544 (3) Upper Intermediate Persian 2
ISLA 545 (3) Advanced Persian 1
ISLA 546 (3) Advanced Persian 2

Revision, May 2021. End of revision.

Turkish

ISLA 232D1 (3) Introductory Turkish
ISLA 232D2 (3) Introductory Turkish
ISLA 333D1 (3) Lower Intermediate Turkish
ISLA 333D2 (3) Lower Intermediate Turkish
ISLA 434D1 (3) Higher Intermediate Turkish
ISLA 434D2 (3) Higher Intermediate Turkish
ISLA 535D1 (3) Advanced Turkish
ISLA 535D2 (3) Advanced Turkish

Urdu

Revision, April 2021. Start of revision.

ISLA 251D1 (3) Introductory Urdu-Hindi
ISLA 251D2 (3) Introductory Urdu-Hindi
ISLA 352D1 (3) Intermediate Urdu-Hindi
ISLA 352D2 (3) Intermediate Urdu-Hindi
ISLA 553 (3) Advanced Urdu-Hindi 1
ISLA 554 (3) Advanced Urdu-Hindi 2

Revision, April 2021. End of revision.

ISLA 100-/200-Le

12 credits from:

ISLA 310	(3)	Women in Islam
ISLA 320	(3)	Art of Islam
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

9 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 425	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 435	(3)	Torla
ISLA 438	(3)	ISLA 388

ISLA Core

HIST 240	(3)	Modern History of Islamic Movements
HIST 339	(3)	Arab-Israeli Conflict
HIST 435	(3)	Topics in South Asian History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture
JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
RELG 204	(3)	Judaism, Christianity and Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

31024211 Bachelor of Arts (B.A.) - Joint Honours Component World Islamic & Middle East Studies (36 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, b

18-21 credits (18 if Introductory Arabic has been chosen), distributed as follows:

3 credits of 100-/200-level non-language ISLA courses;

9 credits of 300-level non-language ISLA courses;

3 credits of 400-/500-level non-language ISLA courses;

3-6 credits at any level, including more language courses, but no more than 6 credits overall at the 100/200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Languages (12-15 credits)

Arabic

Revision, April 2021. Start of revision.

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Revision, April 2021. End of revision.

Persian

Revision, May 2021. Start of revision.

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Revision, May 2021. End of revision.

Turkish

Revision, April 2021. Start of revision.

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Revision, April 2021. End of revision.

Urdu

Revision, April 2021. Start of revision.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Revision, April 2021. End of revision.

ISLA 100-/200-Level

3 credits from:

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies

ISLA 300-Level

9 credits from:

ISLA 310	(3)	Women in Islam
ISLA 320	(3)	Art of Islam
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

3 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 526	(3)	Colloquial Arabic
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

3-6 credits at any level, including ISLA 499, or more language courses (from the language lists above), but no more than 6 credits overall of at the 200 level. Students may fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
ANTH 340	(3)	Middle Eastern Society and Culture
HIST 240	(3)	Modern History of Islamic Movements
HIST 339	(3)	Arab-Israeli Conflict
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

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RELG 204	(3)	Judaism, Christianity and Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

3.10.25 Jewish Studies (JWST)

3.10.25.1 Location

Leacock Building
 855 Sherbrooke Street West, 7th floor
 Montreal QC H3A 2T7
 Telephone: 514-398-2844
 Fax: 514-398-7476
 Website: mcgill.ca/jewishstudies

3.10.25.2 About Jewish Studies

The Department of Jewish Studies, established in 1968, offers an interdisciplinary approach to the study of Judaica. It includes:

- a selection of courses that will enable students not taking a concentration in Jewish Studies to broaden their knowledge of Jewish history and culture;
- elementary, intermediate, and advanced courses in Jewish languages – Hebrew, Yiddish, and Aramaic. In the case of the first two, this includes attention to both spoken idiom and written texts;
- specialized courses in the various disciplines that comprise Jewish Studies for students who have specific academic interests;
- a minor concentration for students who wish to add competence in Jewish Studies to their major field of study;
- a comprehensive major concentration, and an honours program culminating in advanced seminars and tutorials for students contemplating careers in the various fields of Judaica. The Honours program in Jewish Studies will give students the necessary linguistic, textual, and bibliographical knowledge to enable them to pursue graduate work in Jewish Studies.

3.10.25.3 Jewish Studies Faculty

Chair

Yael Halevi-Wise

Graduate Program Director

Christopher Silver

Undergraduate Program Director

Urszula Madej-Krupitski

Emeritus Professors

B. Barry Levy; B.A., M.A., B.R.E.(Yeshiva), Ph.D.(NYU)

Professors

David Aberbach; B.A.(UCL; UK), M.Litt., Ph.D.(Oxf.)

Carlos Fraenkel; M.A., Ph.D.(Free Univ., Berlin) (*joint appt. with Philosophy*) (*James McGill Professor*)

JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 281	(3)	Introductory Yiddish 1
JWST 282	(3)	Introductory Yiddish 2
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1

JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek, Arabic, theories of literature, etc.

The following History department courses may be used as Jewish Studies courses in the Department of Jewish Studies programs. These courses h

JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History

JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

FYS: Images - Je

JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 281	(3)	Introductory Yiddish 1
JWST 282	(3)	Introductory Yiddish 2
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature

- JWST 383 (3) Holocaust Literature
- JWST 386 (3) American Jewish Literature
- JWST 387 (3) Modern Jewish Authors
- JWST 404 (3) Literary Response to Loss/Separation
- JWST 445 (3) The Poetry of Nationalism
- JWST 558 (3) Topics: Modern Jewish Thought
- JWST 585 (3) Tutorial: Eastern European Studies 1
- JWST 605 (3) Tutorial: Eastern European Studies 2
- POL 347 (3) Arab-Israel Conflict, Crisis, Peace

Rabbinic Studies

- HIST 302 (3) Jewish History: 400 B.C.E. to 1800
- HIST 303 (3) Jewish History: 1800 to Present
- HIST 304 (3) Jewish Law

Required Courses (9 credits)

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 491	(3)	Honours Thesis 1
JWST 492	(3)	Honours Thesis 2

Complementary Courses (51 credits)

51 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

One of:

HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

0-18 credits of a Jewish language. Each Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

Hebrew language courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish language courses are found under the heading "Language and Literature - Yiddish."

Areas of Jewish Studies

27-45 credits of courses chosen to reflect progress to the advanced level in two of the areas of study: Biblical Studies, Rabbinic Studies, Literature (Hebrew, Yiddish), Jewish Thought, Jewish History, Modern Jewish Studies, and East European Studies.

Hebrew literature courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish literature courses are found under the heading "Language and Literature - Yiddish".

Students should select their courses in consultation with a program adviser.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut

JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community

JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema

JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 281	(3)	Introductory Yiddish 1
JWST 282	(3)	Introductory Yiddish 2
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897

JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g., History, Religious Studies. There are also related courses in other departments which students specializing in certain areas of Jewish Studies might be encouraged to include in their programs, e.g., Classical Greek,

3.10.25.7 Bachelor of Arts (B.A.) - Joint Honours Component Jewish Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.00 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (9 credits)

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 491	(3)	Honours Thesis 1
JWST 492	(3)	Honours Thesis 2

Complementary Courses (27 credits)

27 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

One of:

HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

0-6 credits of a Jewish language. Each Joint Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 480	(3)	Advanced Yiddish 1
		Advanced Yiddish 2

JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History

HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
	(3)	Denominations in North American Judaism

JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 281	(3)	Introductory Yiddish 1
JWST 282	(3)	Introductory Yiddish 2
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature

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HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History

3.10.25.8 Jewish Studies (JWST) Related Programs

3.10.25.8.1 Jewish Teacher Training Program

Established in 1973 in the Faculty of Education in conjunction with the Department of Jewish Studies, this program prepares students to teach at the elementary and secondary school levels.

Students are encouraged to acquire a strong general background in the Bible as well as in Jewish liturgy, traditions, and history prior to registering in the

Students who envision graduate studies upon completion of the B.A. are strongly advised to pursue an honours or joint honours program (Honours students must submit their thesis by March 15). Although the Major and Minor concentrations form an important part of the Multi-track B.A. in Arts, this general degree does not provide the specialized training called for by most graduate programs in the humanities and social sciences.

Undergraduate Advising

Students may need to obtain Departmental approval to register for language courses and are strongly urged to consult with the Department for advice/approval of their program plans. A placement test is available and may be booked before the start of term with the Language Adviser of the respective area of study. Please see the *Program Advisors* section of our website at

Adviser: Vanessa Ceia
688 Sherbrooke Street West, Room 377
Telephone: 514-398-4400, ext. 09832

- [section 3.10.26.15: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Studies \(18 credits\)](#)
- [section 3.10.26.16: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies \(36 credits\)](#)
- [section 3.10.26.17: Bachelor of Arts \(B.A.\) - Honours Hispanic Studies \(60 credits\)](#)
- [section 3.10.26.18: Bachelor of Arts \(B.A.\) - Joint Honours Component Hispanic Studies \(36 credits\)](#)



Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited toward the Minor.

3.10.26.6 Italian Studies

The Department of Languages, Literatures, and Cultures – Italian Studies has a mission to maintain the traditions and study of the great classics, as well as to provide a window on an increasingly complex and diverse contemporary Italian culture. It promotes the study of the Italian language through an excellent and rigorous language training program. Its undergraduate and graduate programs also offer courses in Italian literature, both in Italian and in English, as well as in Italian film. The Department periodically invites scholars specializing in contemporary politics, the Italian immigrant experience, and social change, enabling students to gain both a broader and more critical understanding of various aspects of Italian culture through contact with specialists in these areas.

Undergraduate Programs

Adviser: Lucienne Kroha
688 Sherbrooke, Room 435
Telephone: 514-398-4400, ext. 09898

- [section 3.10.26.19: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#) (Expandable)
- [section 3.10.26.20: Bachelor of Arts \(B.A.\) - Major Concentration Italian Studies \(36 credits\)](#)
- [section 3.10.26.21: Bachelor of Arts \(B.A.\) - Honours Italian Studies \(54 credits\)](#)
- [section 3.10.26.22: Bachelor of Arts \(B.A.\) - Joint Honours Component Italian Studies \(36 credits\)](#)

3.10.26.7 Russian and Slavic Studies

In addition to offering the only full undergraduate and graduate programs (including M.A. and Ph.D.) in Quebec, the Department of Languages, Literatures, and Cultures – Russian and Slavic Studies continues to attract one of the largest student enrolments in North America. We are proud to have approximately 25 graduates each year from undergraduate programs, many of whom have received credit for courses taken in Russia during their studies. Due to expanding global links—both commercial and institutional—many opportunities are open to students with qualifications in Russian studies. Students may be interested in the organization of human society, comparative literature, and linguistics; Russian Studies are highly relevant to all of these.

Undergraduate Programs

Adviser: Anna Berman
688 Sherbrooke, Room 333
Telephone: 514-398-4400, ext. 094513

- [section 3.10.26.23: Bachelor of Arts \(B.A.\) - Minor Concentration Russian \(18 credits\)](#) (Expandable)
- [section 3.10.26.24: Bachelor of Arts \(B.A.\) - Minor Concentration Russian Culture \(18 credits\)](#)
- [section 3.10.26.25: Bachelor of Arts \(B.A.\) - Major Concentration Russian \(36 credits\)](#)
- [section 3.10.26.26: Bachelor of Arts \(B.A.\) - Honours Russian \(60 credits\)](#)
- [section 3.10.26.27: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 credits\)](#)

3.10.26.8 Languages, Literatures, and Cultures Faculty

Chair

Fernanda Macchi

Directors of Undergraduate Studies/Advisers

Vanessa Ceia (*Hispanic Studies*06.12 Tm(xt. 09832)Tj/1 0 216 0.8431 RGanessa Ceia /F0 8 101.87 Tm(V)8 1 1j1 0

Directors of Undergraduate Studies/Advisers

Stephanie Posthumus (*European Literature and Culture*)

Tove Holmes (*German Studies*)

Amanda Holmes (*Latin American and Caribbean Studies*)

Matteo Soranzo (*Liberal Arts*)

Directors of Graduate Studies

Karin Bauer (*German Studies*)

Laura Beraha (*Russian Studies*)

Giuliana Minghelli (*Italian Studies*)

Jose I 0 0 1 1u1 0 0 1 251.4.8 Tm86T0 0 1 1 1u1 0 0 1 2aLer (Jose I P(Ame594.8 Tm(Italian Studies)T56.37()Tj/Fa(JosHisp 0 c4.147 594.8 Tm())Tj1 0 0 1 70. 8.1 1 2

Faculty Lecturers

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.)

3.10.26.9 Bachelor of Arts (B.A.) - Minor Concentration European Literature and Culture (18 credits)

The Minor Concentration in European Literature and Culture provides students with a broad foundation for understandts)

ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film
LLCU 201	(3)	Literature and Culture Topics
LLCU 220	(3)	Introduction to Literary Analysis
LLCU 230	(3)	Environmental Imaginations
LLCU 279	(0)	Introduction to Film History
LLCU 300	(3)	Cinema and the Visual
LLCU 301	(3)	Topics in Culture and Thought
RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1

ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 456	(3)	Middle English
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

3.10.26.10 Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)

The Minor Concentration in German Language is designed to allow students to achieve linguistic proficiency in German and to introduce students to some of the major aspects of German culture.

This program may be expanded to the Major Concentration German Studies.

Students may begin at the intermediate or advanced level in their first year if the

GERM 336	(3)	German Language, Media and Culture
GERM 337	(3)	Literature and Revolution
GERM 340	(3)	Romanticism
GERM 344	(3)	Realism
GERM 348	(3)	Nature and Eco-poetics
GERM 350	(3)	Modernism and the Avant-Garde
GERM 351	(3)	Berlin
GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
	(3)	Modern Short Fiction

GERM 333	(3)	What is Enlightenment?
GERM 335	(3)	Science and Literature
GERM 336	(3)	German Language, Media and Culture
GERM 337	(3)	Literature and Revolution
GERM 340	(3)	Romanticism
GERM 344	(3)	Realism
GERM 348	(3)	Nature and Eco-poetics
GERM 350	(3)	Modernism and the Avant-Garde
GERM 351	(3)	Berlin
GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 373	(3)	Weimar German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought
GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture
GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02
GERM 401	(3)	Advanced Topics in German Literature and Culture

3.10.26.12 Bachelor of Arts (B.A.) - Major Concentration German Studies (36 credits)

The Major Concentration in German Studies provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the major concentration and normally courses towards the major concentration will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and w6.5tion will 0 1a

GERM 200	(6)	German Language, Intensive Beginners
GERM 202	(6)	German Language, Beginners'
GERM 202D1	(3)	German Language, Beginners'
GERM 202D2	(3)	German Language, Beginners
GERM 300	(6)	German Language Intensive Intermediate
GERM 307	(6)	German Language - Intermediate
GERM 307D1	(3)	German Language - Intermediate
GERM 307D2	(3)	German Language - Intermediate
GERM 325	(6)	German Language - Intensive Advanced

Literature and Culture Courses

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 326	(3)	Topics: German Language and Culture
GERM 331*	(3)	Germany after Reunification
GERM 332	(3)	Topics in Eighteenth-Century German Literature and Culture
GERM 333	(3)	What is Enlightenment?
GERM 335	(3)	Science and Literature
GERM 336	(3)	German Language, Media and Culture
GERM 337	(3)	Literature and Revolution
GERM 340	(3)	Romanticism
GERM 344	(3)	Realism
GERM 348	(3)	Nature and Eco-poetics
GERM 350	(3)	Modernism and the Avant-Garde
GERM 351	(3)	Berlin
GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 373	(3)	Weimar German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought

GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture
GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02
GERM 401	(3)	Advanced Topics in German Literature and Culture
GERM 580	(3)	Topics in German Literature and Culture

3.10.26.13 Bachelor of Arts (B.A.) - Honours German Studies (60 credits)

The Honours in German Studies provides students with a rigorous and broad inquiry into the major features that hav

GERM 333	(3)	What is Enlightenment?
GERM 335	(3)	Science and Literature

Required Cour

GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought
GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture
GERM 397	(3)	Individual Reading Course 01
	(3)	Individual Reading Course 02

Language and Civilization

0-18 credits in Language and Civilization from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Survey of Literature

6 - 12 credits in Survey of Literature from:

HISP 241	(3)	Survey of Spanish Literature and Culture 1
HISP 242	(3)	Survey of Spanish Literature and Culture 2
HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2

300-Level or Above Hispanic Literature

12-30 credits in Hispanic literature at the 300 le

HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 454	(3)	Major Figures: Spanish Literature and Culture
HISP 455	(3)	Major Figures: Latin American Literature and Culture
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1800 Literature

At least 6 credits from:

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 451	(3)	Don Quixote
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

Note: No more than 12 credits in courses taught in English shall count towards the Major.

3.10.26.17 Bachelor of Arts (B.A.) - Honours Hispanic Studies (60 credits)

The Department of Languages, Literatures, and Cultures - Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website

Prerequisite for admission into Honours Hispanic Studies: a first-year Spanish course with a final grade of B+. Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Students must take an 18-credit Minor concentration in another area.

Required Courses (21 credits)

HISP 241	(3)	Survey of Spanish Literature and Culture 1
HISP 242	(3)	Survey of Spanish Literature and Culture 2
HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2
HISP 451	(3)	Don Quixote
HISP 490D1	(3)	Honours Thesis
HISP 490D2	(3)	Honours Thesis

Complementary Courses (39 credits)

39 credits with at least 6 credits selected from:

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

All remaining credits may be selected from courses given in Spanish in the Department at or above the intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

No more than 18 credits in courses taught in English will count towards the Honours program.

3.10.26.18 Bachelor of Arts (B.A.) - Joint Honours Component Hispanic Studies (36 credits)

The Department of Languages, Literatures, and Cultures - Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overvie

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
IT69.161(IT)Tj1 0	(6)	Beginners Italian Intensive
ITA9.110D1	(3)	anced Beginners
ITA9.110D2	(3)	anced Beginners
		Intermediate Italian

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

3.10.26.20 Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

Group A – Basic Language Courses (0-12 credits)

- Students with no knowledge of the Italian language must take 12 credits in language.

- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1/ITAL 210D2, ITAL 215D1/ITAL 215D2, or ITAL 216.

- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

Group B – Courses Taught in Italian (a minimum of 12 credits, of which a maximum of 6 credits may be at the 200 level)

Group C – Courses Taught in English (0-12 credits)

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Italian for Advanced Beginners
ITAL 210D2	(3)	Italian for Advanced Beginners
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Italian Cultural Studies
ITAL 310	(3)	The Invention of Italian Literature
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 345	(3)	Romanticism in Italy
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 368	(3)	Literature of the Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 376	(3)	Italian Epic Poetry
ITAL 380	(3)	Italian Realisms
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement

ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century Italy and the Visual

ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 345	(3)	Romanticism in Italy
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	(3)	Literature of the Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 376	(3)	Italian Epic Poetry
ITAL 380	(3)	Italian Realisms
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

ANTH 337	(3)	Mediterranean Society and Culture
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
CLAS 302	(3)	Roman Literature and Society
	(3)	Classical Tradition

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Italian Cultural Studies
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	(3)	Literature of the Renaissance
ITAL 380	(3)	Italian Realisms
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

(3)	Mediterranean Society and Culture
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Complementary Courses (18 credits)

Courses offered by LLC may be accepted subject to approval by the Department.

3.10.26.25 Bachelor of Arts (B.A.) - Major Concentration Russian (36 credits)

The Major Concentration in Russian gives students a foundation in the language, literature, and culture of Russia from the 19th century to the present. It incorporates a balance of instruction in the Russian language, the opportunity to read selected texts in the original language, and to explore Russian language and culture through translated texts.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Complementary Courses (36 credits)

36 credits selected from the following specifications:

Group A: Russian Language (18 credits)

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

*RUSS 215 is not open to students who have taken RUSS 210 or RUSS 211

RUSS 250	(3)	The Central European Novel
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

3.10.26.266 Bachelor of Arts (B.A.) - Honours Russian (60 credits)

* Note: Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Complementary Courses (48 credits)

Group B: Russian Language

0 - 24 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215	(6)	Elementary Russian Language Intensive 1
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316	(6)	Intermediate Russian Language Intensive 2
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2

Note: Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group C or D.

Group C: 200 level

9 - 12 credits to be chosen from:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore
RUSS 250	(3)	The Central European Novel

Group D: 300 and 400 level

12 - 33 credits to be chosen from:

RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex

RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course

Special Topics in Russ.52 Tm(R 0 0 1 252iAr so. Tm(T)Tj1 0 o. 1f Desire)Tj1 .52 709.84 Tm(R)Tj154 T91 75.599 709.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student'

Group C

6-9 credits selected from the following courses or their equivalent:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
R	(3)	Individual Reading Course

HIST 576D2	(3)	Seminar: Topics in Russian History
JWST 303	(3)	The Soviet Jewish Experience
POLI 329	(3)	Russian and Soviet Politics
POLI 331	(3)	Politics in East Central Europe
POLI 419	(3)	Transitions from Communism
SOCI 455	(3)	Post-Socialist Societies

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

31026284 Bachelor of Arts (B.A.) - Minor Concentration Latin American & Caribbean Studies (18 credits)

The B.A.; Minor Concentration in Latin American and Caribbean Studies focuses on a broad, interdisciplinary view of key aspects of Latin America and the Caribbean. The program may be expanded to the Major Concentration in Latin American and Caribbean Studies.

Required Course (3 credits)

LACS 497 (3) Research Seminar: Latin America and the Caribbean

Complementary Courses (15 credits)

3-6 credits to be chosen from:

HISP 210D1 (3) Spanish Language: Beginners
HISP 210D2 (3) Spanish Language: Beginners
HISP 218 (6) Spanish Language Intensive - Elementary
HISP 219 (6) Spanish Language Intensive - Intermediate
HISP 220D1 (3) Spanish Language: Intermediate
HISP 220D2 (3) Spanish Language: Intermediate
HISP 243 (3) Survey of Latin American Literature and Culture 1
HISP 244 (3) Survey of Latin American Literature and Culture 2

3-6 credits to be chosen from:

HIST 309 (3) History of Latin America to 1825
HIST 360 (3) Latin America since 1825
LACS 480 (3) Latin American and Caribbean Studies Reading Course
LACS 499 (3) Internship: Latin America and Caribbean Studies
POLI 319 (3) Politics of Latin America

3-9 credits to be selected from the following course list in consultation with the Program Adviser. If more than one course is chosen, they must be from at least two different disciplines or departments. At least one course should be at the 300 level or above. No more than 6 credits in Spanish or Portuguese language shall count for the Minor Concentration.

Courses Offered by Other Units

Anthropology

ANTH 212 (3) Anthropology of Development
ANTH 307 (3) Andean Prehistory
ANTH 319 (3) Inka Archaeology and Ethnohistory
ANTH 326 (3) Anthropology of Latin America
ANTH 332 (3) Mesoamerican Archaeology
ANTH 422 (3) Contemporary Latin American Culture and Society

Canadian Studies

CANS 412 (3) Canada and Americas Seminar

Economics

ECON 313 (3) Economic Development 1
ECON 314 (3) Economic Development 2

English

* when given under a topic related to Latin American & Caribbean Studies

ENGL 431 (3) Studies in Drama

Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310 (3) Development and Livelihoods
GEOG 404* (3) Environmental Management 2
GEOG 408 (3) Geography of Development
GEOG 410 (3) Geography of Underdevelopment: Current Problems
GEOG 498 (3) Humans in Tropical Environments
GEOG 510 (3) Humid Tropical Environments

Hispanic Studies

HISP 219 (6) Spanish Language Intensive - Intermediate
HISP 220D1 (3) Spanish Language: Intermediate
HISP 220D2 (3) Spanish Language: Intermediate
HISP 225 (3) Hispanic Civilization 1
HISP 226 (3) Hispanic Civilization 2
HISP 301 (3) Hispanic Literature and Culture in English 1
HISP 302 (3) Hispanic Literature and Culture in English 2
HISP 320 (3) Contemporary Brazilian Literature and Film
HISP 328 (3) Literature of Ideas: Latin America
HISP 332 (3) Latin American Literature of 19th Century
HISP 333 (3) Theatre, Performance and Politics in Latin America
HISP 352 (3) Latin American Novel
HISP 356 (3) Latin American Short Story
HISP 358 (3) Gender and Textualities
HISP 437 (3) Colonial / Postcolonial Latin America
HISP 439 (3) Topics: Latin American Literature
HISP 453 (3) 20th Century Latin American Poetry
Seminar 265.3Si4 381.443 Tm70.Tj1 0u th Century LaTm439

Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 473	(3)	Democracy and the Market

31026285 Bachelor of Arts (B.A.) - Major Concentration Latin American & Caribbean Studies (36 credits)**Required Courses (18 credits)**

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Latin American Literature and Culture 1
HISP 244*	(3)	Survey of Latin American Literature and Culture 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
POLI 319	(3)	Politics of Latin America

Complementary Courses (18 credits)

18 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements:

- 1) Courses from at least two disciplines or departments must be included.
- 2) At least 6 of the 18 credits must be at the 300 level or above.
- 3) No more than 6 credits in Spanish or Portuguese language (HISP 210D1/D2, HISP 218, HISP 219, HISP 220D1/D2, HISP 222) shall count for the Major concentration.

Complementary Course List**Anthropology**

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology and Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 428	(3)	Saints and Mediation in Latin America

Canadian Studies

CANS 412	(3)	Canada and Americas Seminar
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Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

English

* when given under a topic related to Latin American & Caribbean Studies

ENGL 431	(3)	Studies in Drama
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Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310	(3)	Development and Livelihoods
GEOG 404*	(3)	Environmental Management 2 Gent 2

Latin American and Caribbean Studies

LACS 480	(3)	Latin American and Caribbean Studies Reading Course
LACS 499	(3)	Internship: Latin America and Caribbean Studies

Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 473	(3)	Democracy and the Market

~~31026286~~ Bachelor of Arts (B.A.) - Honours Latin American and Caribbean Studies (60 credits)

The Honours Latin American and Caribbean Studies is designed to meet the needs of students who plan to attend graduate or professional school upon completion of the B.A. This program provides a comprehensive interdisciplinary understanding of Latin America and the Caribbean, upon which more specialized coursework and research may be based. This program is recommended for students who envision graduate study in a specific discipline, such as History or Political Science.

While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, in addition, students pursuing the Honours Latin American and Caribbean Studies must normally maintain a B+ (3.30) average in all program courses. Students must also meet all additional Faculty of Arts requirements for graduation with Honours.

Required Courses (21 credits)

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Latin American Literature and Culture 1
HISP 244*	(3)	Survey of Latin American Literature and Culture 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
LACS 498	(3)	Honours Thesis
POLI 319	(3)	Politics of Latin America

Complementary Courses (39 credits)

39 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements.

- 1) 12 credits must be taken in Spanish or Portuguese.
- 2) 27 additional credits on Latin America and the Caribbean (exclusive of language courses).
- 3) A minimum of 15 of these 27 credits must be taken in one of the following disciplinary clusters, which may also include up to 6 credits of theoretical and/or methodological courses of particular relevance to the student's research interests: Cluster 1 - Literature and Culture; Cluster 2 - Economics, History, and Political Science; Cluster 3 - Anthropology and Geography.

Complementary Course List

Hispanic Studies - Languages

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary Spanish Language Intensive

LACS 499

(3)

Internship: Latin America and Caribbean Studies

Cluster 1:

GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

31026287 Bachelor of Arts (B.A.) - Joint Honours Component Latin American and Caribbean Studies (36 credits)

The B.A.; Joint Honours Latin American and Caribbean Studies Component provides students with an interdisciplinary approach to the study of the Latin American and Caribbean region. Students wishing to study at the Honours level in two disciplines can combine Joint Honours programs in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Joint Honours students should consult an adviser in each department to discuss their course selection and their research project. Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Program Requirements

At least 9 of the 36 credits must be at the 400 level or above.

Required Courses (21 credits)

HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
LACS 498	(3)	Honours Thesis
POLI 319	(3)	Politics of Latin America

Complementary Courses (15 credits)

No more than 9 courses in one field.

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology and Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 428	(3)	Saints and Mediation in Latin America

Canadian Studies

CANS 412	(3)	Canada and Americas Seminar
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Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

English

ENGL 431*	(3)	Studies in Drama
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* When given under a topic related to Latin American and Caribbean studies.

Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 404**	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

** When the topic is related to Panama.

Hispanic Studies

HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220	(6)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 302	(3)	Hispanic Literature and Culture in English 2
HISP 320	(3)	Contemporary Brazilian Literature and Film
HISP 328	(3)	Literature of Ideas: Latin America
	(3)	Latin American Literature of 19th Century

3.10.27 Linguistics (LING)

3.10.27.1 Location

Department of Linguistics
1085 Dr. Penfield Avenue, Room 111
Montreal QC H3A 1A7
Telephone: 514-398-4222
Website: mcgill.ca/linguistics

3.10.27.2 About Linguistics

Linguistics is the scientific study of human language. Topics covered at McGill University include: the structure of the world's languages at the level of sounds (phonetics and phonology), words (morphology), sentences (syntax), and meaning (semantics); how people learn languages (acquisition); how people use two languages (bilingualism); ho

Associate Professors

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

J. A. Crippen; B.A., M.A. (UH Manoa), Ph.D. (Br. Col.)

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)

3.10.27.6 Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)

This program may be expanded to the Major Concentration Linguistics.

Required Courses (9 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 371	(3)	Syntax 1

Complementary Courses (9 credits)

9 credits in Linguistics chosen according to the student's interests. At least 3 of these credits must be at the 400/500 level. Only 3 credits at the 200 level may count towards complementary credits.

Students who take LING 360 as one of their complementary courses may also count PHIL 210 (Intro to Deductive Logic 1) as a complementary course, but must still have 3 credits at the 400/500 level.

3.10.27.7 Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)

Required Courses (18 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (18 credits)

18 credits in Linguistics (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

3.10.27.8 Bachelor of Arts (B.A.) - Honours Linguistics (60 credits)

Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Honours Thesis, LING 480D1/D2. According to Faculty of Arts regulations, Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (24 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 480D1	(3)	Honours Thesis
LING 480D2	(3)	Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (36 credits)

36 credits in Linguistics including 12 credits in related fields. At least 15 of the credits in Linguistics must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

Other Fields

12 credits in related fields selected from the following list.

Computer Science

COMP 202	(3)	Foundations of Programming
COMP 230	(3)	Logic and Computability
COMP 250	(3)	Introduction to Computer Science

French Language and Literature

FREN 231	(3)	Linguistique française
FREN 336	(3)	Histoire de la langue française
FREN 434	(3)	Sociolinguistique du français

Language

Burnside Hall, Room 1005
805 Sherbrooke Street West
Montreal QC H3A 0B9
Telephone: 514-398-3800
Website: mcgill.ca/mathstat

3.10.29.2 About Mathematics and Statistics

The Department of Mathematics and Statistics offers programs in both Arts and Science. For a list of teaching staff and an outline of the nature of the discipline, refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.22: Mathematics and Statistics \(MATH\)](#).

A Desautels Faculty of Management B.Com. degree with a Major Concentration in Mathematics or a Major Concentration in Statistics is also available.

Students entering a Mathematics program are normally expected to have completed MATH 133; MATH 139 or MATH 140; MATH 141; or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the program credits.

The following programs are specifically for **Arts** students:

- Minor Concentration Mathematics
- Supplementary Minor Concentration Mathematics
- Major Concentration Statistics
- Minor Concentration Statistics
- Supplementary Minor Concentration Statistics
- Major Concentration Mathematics
- Joint Honours Component Mathematics

The following programs may be taken by students in either **Arts** or **Science**:

- Honours in Applied Mathematics
- Honours in Mathematics
- Honours in Probability and Statistics
- Joint Honours in Mathematics and Computer Science

Students entering one of the Minor or Major Concentrations listed below who have successfully completed a course equivalent to MATH 222 (Calculus 3) prior to coming to McGill are given exemption from taking MATH 222, but must replace it with a Complementary Mathematics course in the program of at least 3 credits. For more information, consult an [adviser](#).

3.10.29.3 Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track

* Note: Credit cannot be received for both MATH 236 and MATH 223 (listed as a required course in the non-expandable version of this Minor concentration).

MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236*	(3)	Algebra 2
MATH 315	(3)	Ordinary Differential Equations

Expandable Version: Complementary Courses (6 credits)

Students selecting the expandable version of this program complete 6 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 as a complementary course.

Non-Expandable Version: Required Courses (9 credits)

* Note: Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the expandable version of this Minor concentration).

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations

Non-Expandable Version: Complementary Courses (9 credits)

Students selecting the non-e

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

Required Course (3 credits)

* Note: If Math 315 has already been taken as part of the Major Concentration Mathematics, an additional 3-credit complementary course must be taken to replace it.

MATH 315* (3) Ordinary Differential Equations

Complementary Courses (15 credits)

15 credits selected as follows:

3 credits from:

* Note: If either of MATH 249 or MATH 316 has been taken as part of the Major Concentration Mathematics, another 3-credit complementary course must be taken.

MATH 249 0 1 70.52 (MA) 731 0 82.67 536.7E 0 8A Arts Complex Variables

3.10.29.5 Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track

This supplementary minor concentration is open only to students registered in the B.A.; Major Concentration in Statistics. Taken together, these two programs constitute a program equivalent to the B.Sc.; Major in Statistics offered by the Faculty of Science. No course overlap between the B.A.; Major Concentration in Statistics and the B.A.; Supplementary Minor Concentration in Statistics is permitted.

Note that according to the Faculty of Arts Multi-Track System degree requirements, option C, students registered in the B.A.; Supplementary Minor Concentration in Statistics must also complete another minor concentration in a discipline other than Mathematics and Statistics. For more information about the Multi-Track System options, please refer to Faculty of Arts regulations under "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs."

Guidelines for Course Selection

Students are strongly advised to complete all required courses and all Part I and Part II complementary courses by the end of U2, except for MATH 423.

Where appropriate, Honours courses may be substituted for equivalent courses. Students planning to pursue graduate studies are encouraged to make such substitutions, and to take MATH 556 and MATH 557 as complementary courses.

Required Courses (6 credits)

* If MATH 423 has been taken as part of the B.A.; Major Concentration in Statistics, another 3-credit complementary course from Part II must be taken.

MATH 243	(3)	Analysis 2
MATH 423*	(3)	Applied Regression

Complementary Courses (12 credits)

Part I: 3 credits selected from **:

** Students who have sufficient knowledge in programming are encouraged to take COMP 250.

COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
COMP 250	(3)	Introduction to Computer Science

Part II: 3 credits selected from:

*** Students can take either MATH 317 or COMP 350, but not both.

COMP 350***	(3)	Numerical Computing
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316	(3)	Complex Variables
MATH 317***	(3)	Numerical Analysis
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Mathematics
MATH 350	(3)	Honours Discrete Mathematics
		TH 350

(3) Communicating Science

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 242	(3)	Analysis 1
MATH 323	(3)	Probability
MATH 324**	(3)	Statistics

Complementary Courses (12 credits)

* Students can take either MATH 410 or MATH 420, but not both.

CCOM 314	(3)	Communicating Science
COMP 551	(4)	Applied Machine Learning
MATH 410*	(3)	Majors Project
MATH 420*	(3)	Independent Study
MATH 423	(3)	Applied Regression
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(0)	Design of Experiments
MATH 598	(4)	Topics in Probability and Statistics

3.10.29.8 Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involved, the possibility of entering into an Honours program in Mathematics, in Applied Mathematics, in Probability and Statistics, or a Joint Honours program in Mathematics and another discipline.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Course Selection

Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions.

Students interested in computer science should consider the courses MATH 317, MATH 318, MATH 327, MATH 340, MATH 407, MATH 417, and take the Minor Concentration Computer Science.

Students interested in probability and statistics should consider either taking the Minor Concentration Statistics under option C, or else including some or all of the courses MATH 423, MATH 447, MATH 523, MATH 524, and MATH 525.

Students interested in applied mathematics should consider the courses MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 407 and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, MATH 407, MATH 417, MA

MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

3.10.29.9 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 222	(3)	Calculus 3

Required Courses (9 credits)

MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2

Complementary Courses (27 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

* It is strongly recommended that students take MATH 254.

3 credits selected from:

MATH 248	(3)	Honours Vector Calculus
MATH 358	()	Honours Advanced Calculus

** It is strongly recommended that students take MATH 358.

15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

* Not open to students who have taken MATH 354.

** Not open to students who have taken MATH 355.

*** Not open to students who have taken MATH 370.

+ Not open to students who have taken MATH 371.

++ Not open to students who have taken MATH 380.

MATH 325	(3)	Honours Ordinary Differential Equations
MATH 356	(3)	Honours Probability

MATH 357	(3)	Honours Statistics
MATH 454*	(3)	Honours Analysis 3
MATH 455**	(3)	Honours Analysis 4
MATH 456***	(3)	Honours Algebra 3
MATH 457+	(3)	Honours Algebra 4
MATH 458++	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis

3.10.29.10 Bachelor of Science (B.Sc.) - Honours Applied Mathematics (63 credits)

Applied Mathematics is a very broad field and students are encouraged to choose a coherent program of complementary courses. Most students specialize in "continuous" or "discrete" applied mathematics, but there are many sensible combinations of courses, and the following informal guidelines should be discussed with the student's adviser. Also, aside from seeking to develop a sound basis in Applied Mathematics, one of the objectives of the program is to kindle the students' interest in possible areas of application. To develop an appreciation of the diversity of Applied Mathematics, students are advised to develop some depth (e.g., by completing a minor) in a field related to Applied Mathematics such as Atmospheric and Oceanic Sciences, Biology, Biochemistry, Chemistry, Computer Science, Earth and Planetary Sciences, Economics, Engineering, Environmental and Atmospheric Sciences, Geology, Health Sciences, History, Mathematics, Physics, and Psychology.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents:

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/151 and MATH 140/222 are considered equivalent.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MA386.741 Tm(nT)Tj1 0 0 1 67.52

MATH 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Honours Discrete Mathematics
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 358	(3)	Honours Advanced Calculus
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (21 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254+	(3)	Honours Analysis 1

+ It is strongly recommended that students take MATH 254.

Advising Notes:

Students interested in continuous applied in.5Atd in re our

MATH 377	(3)	Honours Number Theory
MATH 398	(3)	Honours Euclidean Geometry
MATH 454++	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

++ Not open to students who have taken MATH 354.

All MATH 500-level courses.

Other courses with the permission of the Department.

3.10.29.11 Bachelor of Science (B.Sc.) - Honours Mathematics (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents.

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MA

MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (15 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254**	(3)	Honours Analysis 1

** It is strongly recommended that students take MATH 254.

0-6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 407	(3)	Dynamic Programming
MATH 430	(3)	Mathematical Finance

6-12 credits selected from:

COMP 250++	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

all MATH 500-level courses.

++ Students with limited programming experience should take COMP 202 or COMP 204 or COMP 208 or equivalent before COMP 250.

Students may select other courses with the permission of the Department.

3.10.29.12 Bachelor of Science (B.Sc.) - Honours Probability and Statistics (63 credits)

The program provides training in probability and statistics, with a solid mathematical core, and basic training in computing. It prepares students for graduate school in probability, statistics, or data science. It also of

With satisfactory performance in an appropriate selection of courses, this program can lead to the professional accreditation A.Stat from the Statistical Society of Canada, which is regarded as the entry level requirement for a Statistician practicing in Canada.

Program Requirements (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending on whether or not they are required to take MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses or their equivalents:

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/151 and MATH 140/141/222 are considered equivalent.

Required Courses (28-31 credits)

* Students with limited programming experience should take COMP 202/204/208 or equivalent before COMP 250.

** Students select either MATH 251 or MATH 247, but not both.

*** Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

Note: Students with limited knowledge of computer programming should take COMP 202/204/208 or equivalent before COMP 250. U0 students may take COMP 202 as a Freshman Science course; new U1 students should take one of these courses as an elective in their first semester.

Note: Students who wish to take MATH 204 as a complementary course are strongly advised to take MATH 203 as a Freshman Science course or as an elective in their first semester.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

COMP 250*	(3)	Introduction to Computer Science
MATH 208	(3)	Introduction to Statistical Computing
MATH 222***	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 251**	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 470	(3)	Honours Research Project
MATH 533	(4)	Regression and Analysis of Variance

Complementary Courses (32 credits)

Advising notes:

- Students wishing to pursue probability or mathematical statistics in graduate school are strongly advised to take MATH 587 and recommended to take honours mathematics courses as complementary courses in Part 11, in particular MATH 358, MATH 454 and MATH 455.

- Students wishing to pursue applied statistics and/or careers as statisticians in industry or government are advised to take MATH 523, MATH 524, MATH 547, and as many courses as possible from Part III of the list of Complementary Courses below. Students interested in obtaining the A-Stat accreditation from the Statistical Society of Canada should discuss their course selection with the academic advisor.

- Students with interest in actuarial science are advised to choose from the following as part of their Complementary Courses: MATH 329, MATH 430, MATH 524, MATH 540, MATH 541, MATH 545, MATH 547.

- Students with interest in data science and machine learning are advised to choose from the following as part of their Complementary Courses: COMP 206, COMP 251, COMP 424, COMP 551, MATH 350, MATH 462 and MATH 517.

Part 1: 3 credits selected from:

* It is strongly recommended that students take MATH 254.

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

Part II: at least 6 credits in mathematics and computer science selected from:

+ Students can select either MATH 248 or MATH 358, but not both.

++ Students may obtain credit for both MATH 455 and MATH 587.

COMP 206	(3)	Introduction to Software Systems
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 248+	(3)	Honours Vector Calculus Honours Ordinary Dif

At least 7 credits selected from:

+++ Students must take MATH 204 before taking MATH 357 or MATH 533. Moreover, it is advisable to take MATH 203 as a Freshman Science course or as an elective before taking MATH 204.

MATH 204+++	(3)	Principles of Statistics 2
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 558	(0)	Design of Experiments

0-3 credits from the following courses for which no Honours equivalent exists:

MATH 329	(3)	Theory of Interest
MATH 427	(3)	Statistical Quality Control

The remaining credits selected from:

+++ Students may select either MATH 594 or MATH 598 but not both.

COMP 424	(3)	Artificial Intelligence
COMP 451	(3)	Fundamentals of Machine Learning
COMP 551	(4)	Applied Machine Learning
MATH 430	(3)	Mathematical Finance
MATH 462	(3)	Honours Mathematics for Machine Learning

COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design
MATH 222*	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 350	(3)	Honours Discrete Mathematics

Complementary Courses

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The remaining credits should be selected from honours courses and 500-level courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 364 and COMP 396. ECSE 508 may also be taken.

3.10.30 Music (MUAR)

3.10.30.1 Location

Strathcona Music Building
 555 Sherbrooke Street West
 Montreal QC H3A 1E3
 Telephone: 514-398-4535
 Fax: 514-398-1540
 Website: mcgill.ca/music

3.10.30.2 About Music Programs in Arts

Available within the Faculty of Arts are a Major and a Minor Concentration in Music.

Arts students may also apply to the other music minors (Music Composition; Music Education; Music History; Music Theory; Musical Applications of Technology; and Musical Science and Technology) as long as they have the necessary music prerequisites.

These programs are intended for students who have at least high school matriculation or the equivalent. Students without the formal music prerequisites must speak with a Music Adviser prior to registration. Visit the [Music Program website](#) for more information.

B.A. students should consult with an [Arts OASIS Adviser](#) and the [B.A. Music Adviser](#) to ensure that they have the necessary prerequisites prior to applying to the music programs. Arts students must write placement examinations mcgill.ca/music/student-resources/undergraduates/new-students/placement-exams in music theory and musicianship before they may register for the courses in the music minor or major programs.

Admission to the B.A. program is granted according to criteria established by the Faculty of Arts. For more information, see:

- [section 3.10.30.6: Bachelor of Arts \(B.A.\) - Minor Concentration Music \(18 credits\)](#);
- [section 3.10.30.7: Bachelor of Arts \(B.A.\) - Major Concentration Music \(36 credits\)](#).

Undergraduate students interested in a more intensive music program, including practical instruction on an instrument or in voice and additional ensemble participation, should consider the Bachelor of Music (B.Mus.) degree or the Licentiate program (L.Mus.) offered by the Schulich School of Music; see [Schulich School of Music > Undergraduate > Overview of Programs > section 10.5.1: Degrees and Diplomas Offered](#).

3.10.30.3 Music Ensembles

All McGill students enrolled in a degree program may audition for a variety of ensembles offered through the Schulich School of Music. The majority of the ensemble auditions take place only once a year, generally during the first week of September. If you pass the audition, you may participate in the assigned ensemble(s). Consult with your home faculty adviser to determine if you may apply the ensemble credits toward your degree. The schedule and requirements for ensemble auditions are available on the [Ensemble website](#).

Music Ensembles		
MUEN 496	(2)	Opera Studio
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 567	(1)	Beethoven Orchestra
MUEN 569	(1)	Tabla Ensemble
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593 (section 001)	(2)	Choral Ensembles (Schulich Singers)
MUEN 593 (section 002)	(2)	Choral Ensembles (Concert Choir)
MUEN 593 (section 003)	(2)	Choral Ensembles (University Chorus)
MUEN 594	(2)	Contemporary Music Ensemble

Music Ensembles

MUEN 595

(2)

Jazz Ensembles

McGill Symphon

MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 100	(3)	Music Theory Fundamentals
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (13 credits)

Prior to registering for each required course, students must either have completed the pre-requisite course or have successfully passed the diagnostic placement exam.

MUHL 286	(3)	Critical Thinking About Music
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

Complementary Courses (23 credits)

Students select from courses offered by the Schulich School of Music except for courses with a MUAR subject code. Students must include 3 credits from a MUHL or MUPP subject code at the 300 level or higher.

3.10.30.8 Music Related Programs

3.10.30.8.1 Minor in Musical Applications of Technology

(18 credits) (Non-Expandable)

[*Program registration cannot be done via Minerva.*]

Detailed information about this program is found in [Schulich School of Music > Undergraduate > Browse Academic Units & Programs > Department of](#)

- **Logic** is broadly the analysis of the structure of correct reasoning.

In addition, there are the various “Philosophies of...” e.g., Philosophy of Science, Philosophy of Language, Philosophy of Mind, and Philosophy of Religion.

Some of the courses in the Department are explicitly devoted to these specific areas of philosophy, each exploring one or several ways of construing and answering the questions it poses. Other courses explore some period or individual figure in the history of philosophy, approaching philosophical questions through the work of past thinkers, and often exploring connections between the different areas of philosophy.

The discipline of Philosophy, as a particular way of thinking, emphasizes clarity in expression, both written and oral, and rigour in argument. Philosophical questions are intriguing and complex, and so philosophical method stresses thoroughness and intellectual generosity—the willingness and ability to grasp another’s arguments and respond to them.

The Department requires that all students in the Honours and Joint Honours programs take a special 3-credit course (PHIL 301), the principal aim of which is to equip students with the distinctiv

Associate Professors

Natalie Stoljar; B.A., LL.B.(Syd.), Ph.D.(Princ.) (*joint appt. with Institute for Health and Social Policy*)

Assistant Professors

Christopher Howard; B.A.(Wheaton), M.A.(Brandeis), Ph.D.(Ariz.)

Stephanie Leary; B.A.(Wash.), Ph.D.(Rutg.)

Eran Tal; B.A., M.A.(Tel Aviv), Ph.D.(Tor.) (*Canada Research Chair Tier 2*)

Kristin Voigt; B.A., M.Phil., D.Phil.(Oxf.) (*joint appt. with Institute for Health and Social Policy*)

Adjunct Professor

Susan-Judith Hoffmann; B.A., M.A.(McG.), Ph.D.(Guelph-McM.) (Dawson)

Auxiliary Professor

Konstantinos Arvanitakis; B.Sc., M.A., M.D.,C.M.(McG.), D.Psy., C.I.P.C., C.C.M.Q., F.R.C.P., R.S.M.A.(U.K.) (*Can. Institute of Psychoanalysis*)

Associate Members

Arash Abizadeh; B.A.(Winn.), M.Phil.(Oxf.), Ph.D.(Harv.) (*Political Science*)

Jacob T. Levy; A.B.(Brown), M.A., Ph.D.(Princ.) (*Tomlinson Chair*)

Affiliate Members

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PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics Philosoph

Complementary Courses (33 credits)

33 credits, of which no more than 9 may be at the 200 level and at least 9 must be at the 400 or 500 level, distributed as follows:

18 credits from Groups A, B, C, D, E, and F:

3 credits from Group A

3 credits from Group B

6 credits, two courses from either Group C or Group D

3 credits from Group E

3 credits from Group F

15 additional credits from Groups A, B, C, D, E or F or from other Philosophy (PHIL) courses. Only one of PHIL 200 or PHIL 201 may be included in the program.

Group A

3 credits from:

PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group B

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group C

6 credits (two courses) from Group C OR Group D:

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy

PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group D

6 credits (two courses) from Group C OR Group D:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

Group E

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1
PHIL 242	(3)	Introduction to Feminist Theory

Group F

3 credits from:

PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
PHIL 434	(3)	Metaethics
PHIL 442	(3)	Topics in Feminist Theory

3.10.31.6 Bachelor of Arts (B.A.) - Honours Philosophy (60 credits)

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Courses (15 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 301	(3)	Philosophical Fundamentals
PHIL 334	(3)	Ethical Theory
PHIL 499	(6)	Tutorial 06

Complementary Courses (45 credits)

45 credits distributed as follows:

3 credits from:

PHIL 306	(3)	Philosophy of Mind
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PHIL 310	(3)	Intermediate Logic
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1
PHIL 242	(3)	Introduction to Feminist Theory

6 credits from:

PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

6 credits from:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

24 additional credits in Philosophy (PHIL) with 12 credits at the 400 and 500 levels (not including the Honours tutorial PHIL 499) at least 3 credits of which must be at the 500 level.

A maximum of 15 credits from 200-level courses may be used toward the Honours program. Only one of PHIL 200 or PHIL 201 may be counted toward the program.

3.10.31.7 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Courses (9 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 301	(3)	Philosophical Fundamentals
PHIL 334	(3)	Ethical Theory

Complementary Courses (27 credits)

27 credits distributed as follows:

3 credits from:

PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
		Problems in Analytic Philosoph

Ancient Moral

Associate Professors

Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G'town) (*William Dawson Scholar*)

Maria Popova; B.A.(Dart.), Ph.D.(Harv.)

Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G'town)

William Clare Roberts; B.A.(D9y., B.Com.(a0Qw8Pl.(G'to

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
	(3)	Religion and Politics

POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.32.7 Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, and Political Theory) with the following specifications.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits, provided courses are taken in both Developed Areas and Developing Areas.

No more than 12 of the 36 credits may be at the 200 level. No more than 3 credits at the 200 level may be in any given group.

3 credits should be taken at the 400 level at McGill rather than as transfer credits.

In the final year, no course used toward the program requirements may be below the 300 level.

No more than 12 POLI transfer credits can be used toward the program requirements.

Advising Information

In the first year of the program (U1), students are advised to select their courses from at least three of the five main groups of courses in political science. U1 students should normally take courses at the 200 level only. However, those who have already completed the 200-level prerequisite for courses may take 300-level courses.

Course lists for each group of political science courses are provided below.

NOTE: POLI 200, 210, 311 and 461 can also be used towards this program.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 348	(3)	Gender and Canadian Politics
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 436	(3)	Aboriginal Rights in the Canadian Constitution
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

GEOG 420*	(3)	Memory, Place, and Power
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics

POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.72 Tmv(eloing (Areas)Tj/F1 8.1 Tf1 0 0 1 221.94943106412 Tm De)Tj1 0 0 1 6311.9243106412 Tm(v)Tj1 0 0 1 354.112

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POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 351	(3)	The Causes of Major Wars
POLI 352	(3)	International Policy/Foreign Policy: Africa Politics of the International Refugee Re

POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.32.8 Bachelor of Arts (B.A.) - Honours Political Science (54 credits)

The Honours Political Science program consists of 54 credits, of which 48 must be in Political Science. The remaining 6 credits must be in related social studies disciplines and must be taken at the 300 or 400 level.

To enter, remain and graduate in Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 in general.

To be awarded First Class Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher

No more than 15 Political Science transfer credits can be used toward the program requirements, and no more than 3 non-Political Science transfer credits (at the 300 level or greater in a social science field) can be used toward the non-Political Science complementary program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 348	(3)	Gender and Canadian Politics
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 436	(3)	Aboriginal Rights in the Canadian Constitution
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

GEOG 420*	(3)	Memory, Place, and Power
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism

POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 351	(3)	The Causes of Major Wars
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 355	(3)	The Politics of International Law
POLI 358	(3)	Political Economy of International Organizations
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 45ug	(3)	Conflict Simulation

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.32.9 Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours Program components from two Arts disciplines.

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

To be awarded First Class Joint Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide", which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Joint Honours at graduation, students must be registered in the Joint Honours program in their final year.

POLI 337	(3)	Canadian Public Administration
POLI 342	(3)	Canadian Foreign Policy
POLI 348	(3)	Gender and Canadian Politics
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada
POLI 424	(3)	Media and Politics
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 427	(3)	Selected Topics: Canadian Politics
POLI 436	(3)	Aboriginal Rights in the Canadian Constitution
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

GEOG 420*	(3)	Memory, Place, and Power
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2

POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447)	(3)	Political Economy of Multinationals

3.10.33.2 About Psychology

The Psychology Department offers programs in both Arts and Science. For a list of teaching staff and an outline of the nature of Psychology, refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.33: Psychology \(PSYC\)](#). **Programs that may be taken by Arts students are described in this section, while those listed under the Faculty of Science may be taken by Science students only.**



Note: The B.A. (or B.Sc.) with a major concentration or honours degree in Psychology is not a professional qualification. It does not qualify the individual to carry on professional work in psychology.

3.10.33.3 Information Meetings for New Students

All new students entering the Psychology undergraduate program should attend an information meeting prior to registration. Newly admitted students from CEGEPs should attend the information session in June. There will be an identical information session in August for all other students, and for any CEGEP students who could not attend the earlier meeting. Please check the Psychology Department [website](#) for the specific dates. Students accepted into the Bachelor of Science program must attend a different information meeting from those in the Faculty of Arts. (for details, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.33: Psychology \(PSYC\)](#)). At this meeting, Paola Carvajal, the Academic Adviser, will explain the requirements of the Department's programs. Incoming students will have an opportunity to ask questions and receive advice on how to plan their courses.

Entering students can bring a copy of their collegiate transcript(s). They should also consult this publication and a preliminary Class Schedule before this advising session.

Students entering the Psychology program in January are strongly encouraged to visit the Academic Adviser, Paola Carvajal, in early December to clarify their course selection.

3.10.33.4 Bachelor of Arts (B.A.) - Minor Concentration Psychology (18 credits)

Students registered in a Bachelor of Arts program in another department may pursue the Minor Concentration Psychology. This Minor concentration is expandable for students who may wish to transfer into the Major Concentration Psychology at a later date.

Required Background

Students are required to complete a course in Introductory Psychology either at the collegial or freshman level. Students who have not previously completed CEGEP Psychology 350-101 or 350-102 or equivalent are required to complete PSYC 100 during the first year of study at McGill.

Program Prerequisite

PSYC 100	(3)	Introduction to Psychology
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Complementary Courses (18 credits)

6 credits selected from:

PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

12 credits in Psychology at the 300 level or above.

3.10.33.5 Bachelor of Arts (B.A.) - Minor Concentration Behavioural Science (18 credits)

Restricted to students registered in the Major Concentration Psychology.

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

3 credits in Psychology at the 400 or 500 level

9 credits at the 300 level or above from one or more of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCl).

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication and Consciousness
PSYC 541	(3)	Multilevel Modelling

PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 475	(3)	Neuroscience of Social Psychology
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression and Anxiety
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1

PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

3.10.33.6 Bachelor of Arts (B.A.) - Major Concentration Psychology (36 credits)

The Major Concentration Psychology does not provide sufficient undergraduate background to enable students to apply for membership in the Ordre des Psychologues du Québec, even once the additional graduate requirements of the Ordre have been completed. Students who are interested in practising psychology in Quebec are advised to also complete the Minor Concentration Behavioral Science.

Recommended Background for Quebec CEGEP Students

Students planning to apply to a Bachelor of

List A - (Behavioural Neuroscience, Cognition and Quantitive Methods)

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 475	(3)	Neuroscience of Social Psychology
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression and Anxiety
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

3.10.33.7 Bachelor of Arts (B.A.) - Honours Psychology (60 credits)

Honours Psychology prepares students for graduate study, and so emphasizes practice in the research techniques which are used in graduate school and professionally later on. Students are normally accepted into Honours at the beginning of their U2 year, and the two-year sequence of Honours courses continues through U3.

Admission to Honours is selective. Students with a cumulative grade point average of 3.00 or better are eligible to apply; since enrolment is limited the usual GP

U3 Required Course (3 credits)

PSYC 482	(3)	Advanced Honours Seminar
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Complementary Courses (30 credits)

30 credits of complementary courses with the following specifications:

12 credits to be selected from the list below and any Psychology course at the 500 level.

PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 495	(6)	Psychology Research Project 2
PSYC 496	(6)	Senior Honours Research 1
PSYC 497	(6)	Senior Honours Research 2
PSYC 498D1	(4.5)	Senior Honours Research
PSYC 498D2	(4.5)	Senior Honours Research

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

6 credits in Psychology from List A:

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)PSYC 410	Special Topics in Neuropsychology

(3) Auditory Perception

Applied Topics in Deafness

PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

U2 Required Courses (9 credits)

PSYC 380D1	(4.5)	Honours Research Project Seminar
PSYC 380D2	(4.5)	Honours Research Project Seminar

U3 Required Course (3 credits)

PSYC 482	(3)	Advanced Honours Seminar
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Complementary Courses (6 credits)

3 credits in Psychology at the 300 level or above, and

3 credits in Psychology at the 400 or 500 level.

3.10.34 Religious Studies (RELG)

3.10.34.1 Location

School of Religious Studies
 William and Henry Birks Building
 3520 University Street
 Montreal QC H3A 2A7
 Telephone: 514-398-4121
 Website: mcgill.ca/religiousstudies

3.10.34.2 About the School of Religious Studies

Cultivating a thorough understanding of the world's religions and the roles of religion throughout history and in contemporary society is at the heart of the School of Religious Studies' teaching at the undergraduate and *graduate levels*. The School takes a multidisciplinary approach to scholarship on a plurality of religions and incorporates a broad range of perspectives and methods. In studying the world's religious traditions, we emphasize the ways in which religious expression and practices are embedded in culture, politics, aesthetics, and social change.

The School of Religious Studies has enjoyed a long history at McGill providing a wide range of programs, including B.A. programs, theological programs, and several specialized graduate degree programs. The School's expertise in world religions engages many methods and disciplines, combining the rigorous and historically focused study of religious traditions and contexts with approaches that explore contemporary expressions of religions. For more on the School's distinctive, holistic approach to the study of religions, please visit [About Us](#).

The School is affiliated with the Montreal Diocesan Theological College of the Anglican Church of Canada, the Presbyterian College Montreal, and the United Theological College of the United Church of Canada. Each of these colleges is located close to campus. In 2013, a landmark gift from the Barbara and Patrick Keenan Foundation launched a series of major new developments including the establishment of the Keenan Chair in Interfaith Studies and a new flagship course, "World Religions and the Cultures They Create" (RELG 208). The gift also funds a number of major fellowships and internships to provide formation and support for graduate and undergraduate students.

The School of Religious Studies is located in the handsome William and Henry Birks Building, erected in 1931, formerly known as Divinity Hall, at 3520 University Street. Besides the usual classrooms, offices, and common rooms, this building accommodates the Birks Heritage Chapel and the Birks Reading Room.

History of the School

During the 19th century, several Theological Colleges in Montreal became affiliated with McGill. In 1912, they formed a Joint Board for the academic study of Theology, leaving each denominational College to provide its own professional training for Christian ministry. This relationship between the Colleges and the University led naturally to the creation in 1948 of a Faculty of Divinity, the esrel(tc1pini locfcts)Tj0 Garelationship bed 1 109.042 119.304 Tm(ereb, tked drild

By reason of its close collaboration with the Faculty of Arts, the faculty formally became the School of Religious Studies, within the Faculty of Arts, in 2016. The School offers the Bachelor of Theology (B.Th.) degree, Bachelor of Arts (B.A.) degree programs, and several graduate degree programs.

Religious Studies Pr

Tuition Fees and Funding

Required Documents

- Transcript(s) of all previous post-secondary academic work. Applicants to the B.Th. Program as a first degree must submit high school and/or CEGEP transcripts. Copies of your **unofficial transcript(s)**

You are to seek the guidance of your adviser(s) when registering for courses. You must have your courses approved and your B.Th. Audit Sheet signed by the Chair of the Bachelor of Theology (B.Th.) Committee before classes be

Le Collège Presbytérien
3495 University Street
Montreal QC H3A 2A8

The United Theological College
Le séminaire Uni
3521 University Street
Montreal QC H3A 2A9

3.10.34.9 Religious Studies Faculty

Director

Garth W. Green

Graduate Program Director and Admissions Chair

W.J. Torrance Kirby

Administrative Officer

Francesca Maniaci

Emeritus Professors

Douglas J. Hall; B.A.(UWO), M.Div., S.T.M., Th.D.(UTS, NYC), L.L.D.(Wat.), D.D.(Pres. Coll.), D.D.(Qu.)

Donna Runnalls; B.A.(Br. Col.), B.D.(McG.), Ph.D.(Tor.)

Frederik Wisse; Ing.(Utrecht), B.A., B.D.(Calvin), Ph.D.(Claremont)

Katherine K. Young; B.A.(Vermont), M.A.(Chic.), Ph.D.(McG.)

Professor (Post-Retirement)

G. Victor Hori; B.A.(York), M.A.(Tor.), Ph.D.(Stan.) (*Japanese Religions*)

Professors

Douglas B. Farrow; B.R.E.(Providence), M.Div.(Grace), M.Th.(Regent), Ph.D.(Lond.) (*Christian Thought*)

W.J. Torrance Kirby; B.A.(KCNS), M.A., D.Phil.(Oxf.) (*Ecclesiastical History*)

Gerbern S. Oegema; B.A., Th.D.(Vrije, Amsterdam), M.A., Ph.D.(Free Univ., Berlin), Dr. Theol. Habil(Tübingen) (*Biblical Studies*)

Armando Salvatore; M.A.(L'Orientale, Naples), Ph.D.(EUI), Dr. Habil.(HU Berlin) (*Barbara and Patrick Keenan Chair in Interfaith Studies*)

Arvind Sharma; B.A.(Allahabad), M.A.(Syrac.), M.T.S., Ph.D.(Harv.) (*Henry Birks Professor of Comparative Religion*)

Associate Professors

Lara BraitTj1 0 0 1 411.Tj1 0 0 1 189.m02 Tm(Lara Brsity Street)T3, M., Ph.D.(Haraith Studies)

Assistant Professors

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*)

Numata Visiting Professor

Lawrence Y.K.Lau; M.Phil. (Chinese University, Hong Kong), Ph.D. (Hong Kong University of Science and Technology)

Adjunct Faculty

Alyson Huntly; Dip.Min.(CCS, Winnipeg), M.T.S.(St. And., Sask.), Ph.D.(Qu.)

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.)

Jesse Zink; B.A.(Acad.), M.A.(Chic.), M.Div.(Yale), Ph.D.(Camb.)

Associate Member

Eric Caplan; B.A. (Tor.), M.A. (Hebrew), Ph.D. (McG.)

George Di Giovanni; Ph.D.(Tor.)

Robert Wisnovsky; B.A.(Yale), M.Phil.(Oxf.), M.A., Ph.D.(Princ.)

Affiliate Members

Hilary Boget-Winkler; Ph.D. (Connecticut)

Pierpaolo Ciccarelli; M.A. (Rome La Sapienza), Ph.D. (Rome "Tor Vergata")

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)

Pablo Irizar Carrillo; M.A. (Leuven), Ph.L. (Rome), Ph.D. (Paris), Ph.D. (Leuven)

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)

3.10.34.10 Bachelor of Arts (B.A.) - Minor Concentration Religious Studies (18 credits)

The B.A; Minor Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Required Course (3 credits)

RELG 207 (3) Introduction to the Study of Religions

Complementary Courses (15 credits)

6 credits of Introductory Courses at the 200 level.

ANTH 209	(3)	Anthropology of Religion
CATH 200	(3)	Introduction to Catholicism
CATH 220	(3)	Selected Topics in Catholic Studies
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies

JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 245	(3)	Jewish Life in the Islamic World
JWST 254	(3)	The Jewish Holy Days
JWST 261	(3)	History of Jewish Philosophy and Thought
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 205	(3)	Death and Dying
RELG 210	(3)	Jesus of Nazareth
RELG 211	(3)	Theology through Fiction
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 288	(3)	Introduction to Sikhism

9 credits of Advanced Courses at the 300 level or higher.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Ethics
CATH 320	(3)	Catholicism and Modernity
CATH 325	(3)	Mystery and the Imagination
CATH 330	(3)	Catholicism in a Global Context
CATH 335	(3)	Confessions of Saint Augustine

RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 379	(3)	Eastern Orthodox Christianity
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 384	(3)	Religion and Public Policy
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 398	(3)	North American Christianity
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Advanced Theology
RELG 440	(3)	Global Islam
RELG 442	(3)	Pure Land Buddhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 445	(3)	Modern Buddhism
RELG 450	(3)	The Way of the Kami
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions

RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

Bachelor of Arts (B.A.) - Major Concentration Religious9245.8Uie(B.36 credits

RELG 280	(3)	New Testament Greek 2
RELG 288	(3)	Introduction to Sikhism

0-12 credits of Classical language courses.

CLAS 210	(3)	Introductory Latin 1
CLAS 212	(3)	Introductory Latin 2
CLAS 215	(6)	Intensive Introductory Latin
CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
CLAS 225	(6)	Intensive Introductory Ancient Greek
CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2

CATH 335	(3)	Confessions of Saint Augustine
CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
CATH 375	(3)	Topics in Catholic Theology
CATH 460	(3)	Catholic Studies Seminar
HIST 427	(3)	The Hasidic Movement
ISLA 310	(3)	Women in Islam
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 382	(3)	Jews, Judaism and Social Justice
RELG 300	(3)	Second Temple Judaism

RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 355	(3)	Religion and the Arts 2
RELG 356	(3)	Gender and Sexuality in Hinduism
RELG 358	(3)	Religion and Cinema in India
RELG 361	(3)	Religious Behaviour
RELG 366	(3)	Rivers, Religion, and Environment in South Asia

RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Religions of South Asia
RELG 558(3)	(3)	Indian Tantric Traditions

JWST 254	(3)	The Jewish Holy Days
JWST 261	(3)	History of Jewish Philosophy and Thought
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 205	(3)	Death and Dying
RELG 210	(3)	Jesus of Nazareth
RELG 211	(3)	Theology through Fiction
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 288	(3)	Introduction to Sikhism

0-12 credits of Classical language courses.

CLAS 210	(3)	Introductory Latin 1
CLAS 212	(3)	Introductory Latin 2
CLAS 215	(6)	Intensive Introductory Latin
CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
CLAS 225	(6)	Intensive Introductory Ancient Greek
CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 381	(3)	Advanced New Testament Greek
RELG 390D1	(3)	Elementary Biblical Hebrew

RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 491	(3)	Biblical Hebrew Narratives
RELG 492	(3)	Biblical Hebrew Poetry

33-39 credits of Advanced courses at the 300 level or higher.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Ethics
CATH 320	(3)	Catholicism and Modernity
CATH 325	(3)	Mystery and the Imagination
CATH 330	(3)	Catholicism in a Global Context
CATH 335	(3)	Confessions of Saint Augustine
CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
CATH 375	(3)	Topics in Catholic Theology
CATH 460	(3)	Catholic Studies Seminar
HIST 427	(3)	The Hasidic Movement
ISLA 310	(3)	Women in Islam

RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues
RELG 337	(3)	Themes in Buddhist Studies
RELG 338	(3)	Women and the Christian Tradition
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 355	(3)	Religion and the Arts 2
RELG 356	(3)	Gender and Sexuality in Hinduism
RELG 358	(3)	Religion and Cinema in India
RELG 361	(3)	Religious Behaviour
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 368	(3)	Japanese Religions in Pop Culture
RELG 369	(3)	Tibetan Buddhism
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 373	(3)	Christian Ethics of Love
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 384	(3)	Religion and Public Policy
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 398	(3)	North American Christianity
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 410	(3)	Paul and His Legacy
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Advanced Theology

RELG 440	(3)	Global Islam
RELG 442	(3)	Pure Land Buddhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 445	(3)	Modern Buddhism
RELG 450	(3)	The Way of the Kami
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

3.10.34.13 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies (36 credits)

The B.A.; Joint Honours - Religious Studies Component focuses on the methodological approaches to the study of religious traditions, including the teachings, and history of those traditions.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each se

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Complementary Courses (27 credits)

6 credits from Core courses:

CATH 220	(3)	Selected Topics in Catholic Studies
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality

21 credits from Advanced courses at the 300 level or higher:

CATH 335	(3)	Confessions of Saint Augustine
CATH 375	(3)	Topics in Catholic Theology
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 315	(3)	Special Topics in Religion 1
RELG 316	(3)	New Religious Movements
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 333	(3)	Principles of Theology

RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

3.10.34.14 Bachelor of Theology (B.Th.) - Religious Studies (120 credits)

The Bachelor of Theology (B.Th.) degree requires 120 credits. Many students enter the program with advanced standing, and their credit requirement for the degree is adjusted accordingly. All students must discuss their course selection with their program adviser.

Students admitted on the basis of a bachelor degree will have advanced standing and should consult their program adviser to determine any course equivalencies completed during their first degree and how these affect their program requirements for the Bachelor of Theology.

The Bachelor of Theology degree serves three types of students: those seeking a classically oriented undergraduate program in the humanities that allows them to focus eventually on theology and related disciplines (90/120 credits); those who already have a degree but desire to add this competency, whether out of personal interest or with a view to graduate research in a theological discipline (60 credits); and those who not only desire but require it for the sake of a subsequent professional degree such as the Master of Divinity.

The Bachelor of Theology engages students in some of life's biggest questions and some of the world's most influential literature. Those doing 90 or more credits can (schedules permitting) add a Minor Concentration program in some other desired discipline or field; those who enter the program at Year 0 can add two Minor Concentrations offered by the Faculty of Arts and the Faculty of Science.

The normal course load in the degree for full-time students is 15 credits per term, five 3-credit courses. By permission of the Chair of the B.Th. Committee, students may also enroll for courses at any university in the province of Quebec. For further information, see University Regulations and Resources > Registration > Quebec Inter-University Transfer Agreement > Quebec Inter-University Transfer Agreement: McGill Students.

Professional and vocational courses (e.g., leading to ordination) are available through the In-Ministry Year (Master of Divinity (M.Div.)) upon the completion of the B.Th. degree.

Required Courses (33 credits)

RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 309	(3)	World Religions and Cultures They Create

RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 333	(3)	Principles of Theology
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 434	(3)	Advanced Theology
RELG 470	(3)	Theological Ethics

Complementary Courses (12-51 Credits)

Students with advanced standing take the minimum number of complementary credits, which must be at the 300 level or above from the following.

Philosophy

0-6 credits from:

PHIL 200	(3)	Introduction to Philosophy 1
PHIL 230	(3)	Introduction to Moral Philosophy 1
RELG 321	(3)	Western Intellectual Tradition
RELG 380	(3)	Religion, Philosophy, Modernity

Theology

3-6 credits from:

CATH 310	(3)	Catholic Intellectual Traditions
RELG 211	(3)	Theology through Fiction
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues

Bible (Old Testament)

3-6 credits from:

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 491	(3)	Biblical Hebrew Narratives
RELG 492	(3)	Biblical Hebrew Poetry

Bible (New Testament)

3-6 credits from:

CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
RELG 210	(3)	Jesus of Nazareth
RELG 279	(3)	New Testament Greek 1
RELG 280	(3)	New Testament Greek 2
RELG 326	(3)	Christians in the Roman World

RELG 381	(3)	Advanced New Testament Greek
RELG 410	(3)	Paul and His Legacy
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament

Church History

3-6 credits from:

CATH 330	(3)	Catholicism in a Global Context
RELG 310	(3)	Canadian Church History
RELG 338	(3)	Women and the Christian Tradition
RELG 399	(3)	Christian Spirituality
RELG 423	(3)	Reformation Thought
RELG 498	(3)	Special Studies

Comparative Religion

0-6 credits from:

ISLA 200	(3)	Islamic Civilization
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
JWST 382	(3)	Jews, Judaism and Social Justice
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 288	(3)	Introduction to Sikhism
RELG 348	(3)	Classical Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions

Ethics

0-3 credits from:

CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 373	(3)	Christian Ethics of Love
RELG 376	(3)	Religious Ethics

0-12 credits of undergraduate RELG or CATH courses (for students who do not have advanced standing that enter program at Year 0).

Elective Courses (15-36)

15-36 credits chosen from Arts or Science disciplines.

Students with advanced standing take the minimum number of elective credits.

Elective credits may be applied to any Minor Concentration available in Arts or Science other than Religious Studies (see specific Minor Concentration re

Atmospheric and Oceanic Sciences

Prerequisites which cannot be counted toward the Minor concentration: MATH 140 and MATH 141 or equivalents; PHYS 101 or PHYS 131 and PHYS 102 or PHYS 142 or equivalents recommended.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
MATH 222	(3)	Calculus 3

Biochemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and CHEM 120, or their equivalents.

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Students who have completed CHEM 212 and CHEM 222 or their equivalents may take one or both of the following:

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules

Biology

Students interested in Biology can choose between two streams. Cell and molecular biology leads to upper-level courses in developmental biology, human genetics, molecular biology, or allied fields. Organismal biology leads to upper-level courses in biodiversity, ecology, neurobiology, behaviour, or conservation biology. See the Undergraduate Program Adviser in the Biology Department, N7/9B, Stewart Biology Building, to arrange a counselling session on the choice of courses above the 200 level.

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, plus CHEM 110 and CHEM 120 or their equivalents; in addition, for the Organismal Stream, PHYS 101 or PHYS 131; and MATH 140 and PHYS 102 or PHYS 142 if taking BIOL 306.

Biology - Cell and Molecular Stream

BIOL 200	(3)	Molecular Biology
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Biology - Organismal Stream

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Plus one or more of these or related upper-level courses:

BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 465	(3)	Conservation Biology

Chemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 112, and CHEM 110 and CHEM 120, or their equivalents; MATH 140, and PHYS 101 or PHYS 131, and PHYS 102 or PHYS 142, or their equivalents if taking CHEM 334.

The Department also strongly encourages students to take one or more courses involving a laboratory because the science of chemistry is rooted in laboratory experience.

Students select 15 credits from the following courses and their associated prerequisites:

Note: CHEM 212 or its equivalent is prerequisite to all 200-level or higher courses.

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 381	(3)	Inorganic Chemistry 2

One of:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

Earth and Planetary Sciences

A combination of EPSC 201 or EPSC 233, together with EPSC 210 and EPSC 212 provides a grounding in Earth and Planetary Sciences and preparation for more specialized courses.

Students should meet with an EPSC departmental adviser prior to selecting their courses, as some 200-level courses have specific prerequisites.

Prerequisites which cannot be counted toward the Minor concentration: CHEM 110 and CHEM 120, and MATH 140 or equivalents.

Students select 15 credits from the following courses and their associated prerequisites:

EPSC 201*	(3)	Understanding Planet Earth
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BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
MIMM 211	(3)	Introductory Microbiology
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Pathology

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, plus CHEM 110 and CHEM 120, MATH 140, and PHYS 101 or PHYS 131 and PHYS 102 or PHYS 142, or their equivalents.

PATH 300, together with its associate prerequisites, is well suited to students with an interest in medicine.

Students select 15 credits from the following courses and their associated prerequisites:

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
PATH 300	(3)	Human Disease
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Physics

Prerequisites which cannot be counted toward the Minor concentration: PHYS 131, PHYS 142, MATH 140, MATH 141, MATH 222 or their equivalents.

Honours courses may be substituted for their Major equivalents only with the permission of the Department.

Students select 15 credits from the following courses and their associated prerequisites:

PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 320	(3)	Introductory Astrophysics

Physiology

Prerequisites which cannot be counted towards the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and CHEM 120, MATH 140, PHYS 101 or PHYS 131, and PHYS 102 or PHYS 142, or their equivalents.

Students should select:

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or BIOC 212.

Both:

PHGY 209

(3)

Mammalian Physiology 1

Mammalian Physiology 2



Note: No overlap is permitted with courses counting toward the student's Major Concentration.

3.10.36.3 Social Studies of Medicine Faculty

Chair

Annmarie Adams

Emeritus Professors

Margaret Lock; B.Sc.(Leeds), M.A., Ph.D.(Calif., Berk.)

Allan Young; M.A.(Wash.), B.A., Ph.D.(Penn.)

Professors

Annmarie Adams; M.Arch, Ph.D.(Calif., Berk.) (*Stevenson Chair in the History and Philosophy of Science, including Medicine*)

Alberto Cambrosio; M.Env.(Sher.), Ph.D.(Montr.)

Jonathan Kimmelman; M.A., Ph.D.(Yale) (*James McGill Professor*)

Thomas Schlich; M.D.(Marburg), Ph.D.(Freiburg) (*James McGill Professor in the History of Medicine*)

Andrea Tone; B.A.(Qu.), M.A., Ph.D.(Emory)

Faith E. Wallis; M.A., M.L.S.(McG.), Ph.D.(Tor.)

George Weisz; M.A., Ph.D.(SUNY, Stony Brook), Dr. 3rd Cy.(Paris V) (*Cotton-Hannah Professor of the History of Medicine*)

Associate Professors

Jennifer Fishman; M.A.(Calif., Irvine), Ph.D.(Calif. San Francisco)

Nicholas King; M.A., Ph.D.(Harv.)

Todd Meyers; B.F.A.(SAIC), MA, Ph.D.(Johns Hop.) (*Marjorie Bronfman Chair in Social Studies in Medicine*)

Assistant Professors

Phoebe Friesen; B.A. Hons.(Vic., BC), M.A.(UWO), Ph.D.(CUNY)

Sahar Sadjadi; M.D.(Tehran), Ph.D.(Col.)

3.10.36.4 Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 335	(3)	Science and Medicine in Canada
HIST 356	(3)	Medicine in the Medieval West
HIST 381	(3)	Colonial Africa
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 430	(3)	Topics in Modern Medicine
HIST 449	(3)	Medicine in the Ancient World

HIST 452	(3)	Topics in Pre-Modern Medicine
HIST 457	(3)	Topics in Medical History
HIST 558	(3)	Modern Medicine: Seminar
HIST 559	(3)	Modern Medicine: Research
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine
WMST 513	(3)	Gender, Race and Science

Anthropology of Medicine

ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 325	(3)	Anthropology of the Self
ANTH 407	(3)	Anthropology of the Body
ANTH 408	(3)	Sensory Ethnography
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6

Sociology of Medicine

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 588	(3)	Biosociology/Biodemography

3.10.37 Social Work (SWRK)

3.10.37.1 Location

School of Social Work
 Wilson Hall, Suite 300
 3506 University Street
 Montreal QC H3A 2A7
 Telephone: 514-398-7070
 Fax: 514-398-4760
 Email: undergraduate.socialwork@mcgill.ca
 Website: mcgill.ca/socialwork

Associate Professors

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.), Ph.D.(Montr.)

Régine Debrose; B.Sc.(Montr.), M.Sc., Ph.D.(McG)

Wanda Gabriel; B.S.W., M.S.W.(McG.)

Charles Gyan; B.S.W., M.S.W. (Uni. Ghana), PhD. (Laurier)

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.)

Nicole Mitchell; B.S.W.; M.S.W. (McG.)

3.10.37.5 Bachelor of Social Work (B.S.W.) - Social Work (Three-Year Program) (90 credits)

The School of Social Work offers an undergraduate program leading to a Bachelor of Social Work (BSW) degree. The BSW focuses on generalist social work practice in a range of health and social service settings locally, nationally and internationally. Drawing on principles of diversity and equity consistent with anti-oppressive frameworks, the BSW examines theoretical foundations and practice skills to assess and respond to social problems affecting individuals, families, groups and communities. Core objectives include: exploration of an identity consistent with the values and ethics of the profession; promoting human rights and social justice; addressing historical and contemporary systemic and structural sources of oppression and marginalization; and, engaging in critical thinking in relation to client populations and in response to inequitable policies and their implications for disadvantaged groups. The BSW includes essential training through field practice.

Field Practicum

Students in the three-year B.S.W. program complete a field placement during their second and third years, two days per week, in different settings each year. Students must hav

Practice with Individuals and Families 2

3.10.38.2 About Sociology

Sociology is commonly defined as the scientific study of society. It offers the student an educational experience which is both intellectually rewarding and practically useful as a preparation for future career opportunities. It provides the student with the theoretical and analytical tools to better understand the complex social forces which affect our lives, contributing in this way to personal enrichment and more effective citizenship. It is also valuable preparation for advanced study in the social sciences, as well as for careers in management; education; law; medicine and health-related areas; social work; and communications in both the public sector and private industry.

The Department offers a **Minor Concentration**, a **Major Concentration**, an **Honours**, and a **Joint Honours** program in Sociology. Although a student from outside the Department may take courses in the Department without having taken SOCI 210 Sociological Perspectives (except where noted otherwise), the course is recommended. The purpose of the Minor Concentration is to give the student a basic understanding of the field of Sociology, while the Major Concentration will provide a more comprehensive coverage of the field. The purpose of the Honours program is to permit a student to study the field in depth, and to do an Honours Project—a research paper under the supervision of a faculty member—whose topic and supervisor are chosen by mutual agreement between the student and the professor.

A list of Academic Advisers and their schedules are av

SOCI 430	(3)	Sociology of Citizenship
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 430	(3)	Sociology of Citizenship
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.38.6 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

SOCI 341	(3)	Current Problems in Sociology 02
SOCI 342	(3)	Independent Study 1
SOCI 343	(3)	Independent Study 2
SOCI 441	(3)	Current Problems in Sociology 03
SOCI 442	(3)	Independent Reading and Research 01
SOCI 443	(3)	Independent Reading and Research 02

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization

SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Sociology of the Media
SOCI 322	(3)	Sociology of Literature
SOCI 325	(3)	Sociology of Science
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 503	(3)	Surveillance in Modern Society
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control
SOCI 595	(3)	Immigration Control and The State

Politics and Social Change

SOCI 212	(3)	International Migration
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 245	(3)	The Sociology of Emotions
SOCI 254	(3)	Development and Underdevelopment
SOCI 255	(3)	Gender and the State
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies

SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 595	(3)	Immigration Control and The State

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 430	(3)	Sociology of Citizenship
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology
SOCI 595	(3)	Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.38.7 Bachelor of Arts (B.A.) - Honours Sociology (51 credits)

The B.A.; Honours in Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Students may register for the Honours program at the beginning of their second year (U2).

To remain in the Honours program and receive an Honours degree, students must maintain a GPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00.

Required Courses (21 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology
SOCI 480	(3)	Honours Project

Complementary Courses (30 credits)

30 credits of complementary sociology (SOCI) courses selected with the following specifications:

9 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
	(3)	Family and Modern Society

SOCI 325	(3)	Sociology of Science
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 388	(3)	Crime
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons

Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-le

SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 212	(3)	International Migration
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 245	(3)	The Sociology of Emotions
SOCI 254	(3)	Development and Underdevelopment
SOCI 255	(3)	Gender and the State
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 326	(3)	Political Sociology 01
SOCI 345	(3)	Topics in Sociology
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 400	(3)	Comparative Migration and Citizenship
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 457	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies

Social Stratification-a6187.561 Tm(.6Au.927.56841 221.949 219.002).6Au.927.5n28ithnicity

SOCI 200	(3)	
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(3)

SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 415	(3)	Education and Inequality
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology
SOCI 595	(3)	Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4 Bachelor of Arts and Science

4.1 About the Faculties

The B.A. & Sc. is an interdisciplinary degree intended for students who w

4.3 About the Bachelor of Arts and Science (Undergraduate)

In September 2005, the Faculties of Arts and of Science introduced the Bachelor of Arts and Science degree. The Bachelor of Arts and Science (B.A. & Sc.) is a special and unique degree that is jointly offered by McGill's two largest faculties: the Faculty of Arts and the Faculty of Science.

The programs in the B.A. & Sc. are rooted in both Arts and Science and carry roughly equal course weight in these faculties. The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by the Faculty of Arts and one offered by the Faculty of Science or a program offered jointly by both faculties. In the case of some disciplines, such as Sustainability or Cognitiv

Student Representatives

Gwen Aubrac

Major Conc. Environment; Minor Conc. Health
Geography

Louisa Shen

Major Conc. Biol. Cell/MOL; Major Conc. Intl.
Develop. Studies

4.3.3 Science Office for Undergraduate Student Advising (SOUSA)

The Science Office for Undergraduate Student Advising (SOUSA) provides ongoing advice and guidance on academic issues related to programs, degree requirements, registration, course change, withdrawal, deferred exams, supplemental exams, Academic Standing, inter- and intra-faculty transfer, year or term away, transfer credits, second programs, second degrees, and graduation.

Every student in the B.A. & Sc. degree is assigned to Tania Raggio, B.A. & Sc. Student Adviser. You can contact her directly by email tania.raggio@mcgill.ca.

The B.A. & Sc. adviser provides assistance with degree planning and is a valuable referral source if you are not sure where to address your question. She also offers help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions.

Special requests can be made, in writing, to the Director of Advising Services, Science, who is responsible for students pursuing a B.A. & Sc.

The Committee on Student Standing (CSS) of the Faculty of Science will consider appeals of the Director of Advising Services' decisions. For information about CSS, see the Director of Advising Services' assistant.

For more information, refer to the SOUSA website: mcgill.ca/science/undergraduate.

4.4 Degree Admission Requirements

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4.5.2 Residency Requirement

To obtain a B.A. & Sc., you must satisfy the following residency requirements: a minimum of 60 credits of courses used to satisfy the B.A. & Sc. requirements must be taken and passed at McGill, exclusive of any courses completed as part of the math and science requirements of the B.A. & Sc. Freshman program. At least two-thirds of all departmental program requirements (Multi-track, Honours, Interfaculty) must normally be completed at McGill, not including courses completed in a prior McGill degree. Exceptionally, students in major concentrations or interfaculty or honours programs who pursue an approved Study Away or Exchange program may, with prior approval from both their department and the Associate Dean, Student Affairs, Faculty of Science, be exempted from the two-thirds rule. In addition, some departments may require that their students complete specific components of their program at McGill.

4.5.3 Time and Credit Limit for Completion of the Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration. If you are a student in the Freshman program, you become subject to these regulations one year after your initial registration. If you need or want to exceed this time limit, you must receive permission from the Director of Advising Services, Science, to continue your studies.

If you are registered in the B.A. & Sc., you are expected to complete the requirements of your program and your degree within 120 credits. You will receive credit for all courses (subject to degree regulations) taken up to and including the semester in which you complete your de

Faculty of Arts and at least 21 credits in the Faculty of Science as part of your honours program and your minor concentration or minor program. See

- Credit will be given for **only one** of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, POTH 204, PSYC 204, SOCI 350.
- Credit will be given for **only one** of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, PSYC 305, SOCI 461, with the exception that you may receive credit for both PSYC 305 and ECON 227D1/D2 or ECON 257D1/D2.
- Students who have already received credit for MATH 324 or MATH 357 will **not** receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program/department adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

4.5.5.2 Courses Outside the Faculties of Arts and of Science

The following regulations apply to students in the B.A. & Sc. who want to take courses outside the Faculties of Arts and of Science:

- Regardless of your minimum credit requirement toward your B.A. & Sc., you are allowed a maximum of 12 credits in ELECTIVE and/or COMPLEMENTARY courses taken in faculties other than the Faculties of Arts and of Science.
- Students in certain designated programs that include a number of REQUIRED and COMPLEMENTARY courses in other faculties are permitted a maximum of 30 credits outside the Faculties of Arts and of Science. These programs are the Interfaculty and Honours programs in Environment, the Minor concentration in Environment, the Interfaculty and Honours programs in Sustainability, Science and Society, and the Major concentration in Geography (Urban Studies).
- Any courses taught at McGill University may be used toward the maximum allowed, except for courses taught by the School of Continuing Studies, for which you receive credits only in Continuing Studies. Courses taught by the McGill Writing Centre are excluded from this rule and can count for credit in your degree (see the SOUSA website for a list of approved courses: mcgill.ca/science/undergraduate/handbook#basc-continuing).
- For the purpose of this policy, courses taught in other faculties and specifically listed in [Faculty of Arts > Undergraduate](#) or [Faculty of Science > Undergraduate](#) are considered as courses taught in the Faculties of Arts and of Science.
- **The maximum number of credits allowed will be strictly enforced.**

4.5.5.3 Distance Education Courses

- A maximum of 6 credits of courses taught through distance education may be used as electives toward the B.A. & Sc. degree at McGill.
- Courses taught through distance education from institutions other than McGill will be approved as transfer credits under the following conditions:
 - the course is given by a government-accredited, degree-granting institution acceptable to McGill;
 - the course counts for credit toward degrees granted at the institution giving the course;
 - prior approval for the course is obtained from the Science Office for Undergraduate Student Advising (SOUSA).
- The combined total of regular course credits and distance education course credits may not exceed the permitted maximum number of credits per term according to the regulations for the B.A. & Sc. (see [University Regulations and Resources > Undergraduate > Registration > section 1.3.2.4: Course Load](#)).
- Courses taught through distance education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it. In such cases, prior approval must be obtained from your program adviser and the Director of Advising Services, Science.

4.5.5.4 Courses in English as a Second Language (ESL)

ESL courses are only open to students whose primary language is not English and who have studied for fewer than five years in English-language secondary institutions. As a student in the B.A. & Sc., you may take C8 Tm.3

4.6 Advising

If you need 96 or fewer credits to complete your degree requirements, you must consult an academic adviser in your proposed department of study to obtain advice and approval of your course selection (please see [section 4.5.4: Departmental Programs](#)). To facilitate program planning, you must present your transcript(s) and letter of admission. If you have not fulfilled the B.A. & Sc. Freshman program requirements, you should also seek advice from an adviser in the Science Office for Undergraduate Student Advising (SOUSA). For a detailed description of advising and registration procedures, refer to [University Regulations and Resources > Undergraduate > section 1.11: Undergraduate Advising](#), [section 1.3: Registration](#), and to the [website for newly admitted undergraduate students](#), as well as the [SOUSA website](#), and finally your department's website.

If you need 97–120 credits to complete your degree requirements, you will normally be registered in a Freshman program until you complete your first year. You must consult an adviser in the Science Office for Undergraduate Student Advising ([SOUSA](#)) to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures, you should refer to mcgill.ca/accepted

Joint Honours

The Joint Honours option is similar to the multi-track system except that you complete two joint honours components, one in Arts and one in Science. Currently

4.9.1 Minor Concentrations or Minors

4.9.1.1 Faculty of Arts

The Arts minor concentrations available to B.A. & Sc. students are listed here. Since the B.A. & Sc. degree requires a certain number of credits in the Arts and in the Sciences, there are special requirements for B.A. & Sc. students. To be counted as an Arts minor or minor concentration, the program must include at least 15 credits of Arts courses. Similarly, to be counted as a Science minor or minor concentration, the program must include at least 15 credits of Science courses.

For example, a student completing the 18-credit African Studies Minor Concentration in Arts must complete at least 15 of those credits in Arts courses and at most 3 credits in Science courses. As another example, a student completing a 24-credit Science Minor in Interdisciplinary Life Sciences must complete at least 15 credits in Science courses and at most 9 credits in Arts courses.

Faculty of Arts Minor Concentrations or Minors

African Studies – *section 4.10.22.1: Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)*

Anthropology – *section 4.10.3.1: Bachelor of Arts (B.A.) - Minor Concentration Anthropology (18 credits)*

Art History – *section 4.10.4.1: Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)*

Classics – *section 4.10.19.1: Bachelor of Arts (B.A.) - Minor Concentration Classics (18 credits)*

Communication Studies –

Faculty of Arts Minor Concentrations or Minors

Linguistics – *section 4.10.26.1: Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)*

Philosophy – *section 4.10.28.1: Bachelor of Arts (B.A.) - Minor Concentration Philosophy (18 credits)*

Political Science – *section 4.10.30.1: Bachelor of Arts (B.A.) - Minor Concentration Political Science (18 credits)*

Quebec Studies – *section 4.10.21.3: Bachelor of Arts (B.A.) - Minor Concentration Quebec Studies & Community-Engaged Learning/ La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire (18 credits)*

Religious Studies – *: Bachelor of Arts (B.A.) - Minor Concentration Religious Studies (18 credits)*

Russian – *section 4.10.25.5: Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)*

Russian Culture – *section 4.10.25.6: Bachelor of Arts (B.A.) - Minor Concentration Russian Culture (18 credits)*

Social Studies of Medicine – *section 4.10.33.1: Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)*

Sociology – *section 4.10.34.1: Bachelor of Arts (B.A.) - Minor Concentration Sociology (18 cr*

Faculty of Arts Major Concentrations

African Studies – *section 4.10.22.2: Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)*

Anthropology – *section 4.10.2.2: Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)*

Art History – *section 4.10.12.3: Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)*

Classics – *section 4.10.12.1: Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)*

East Asian Studies – *section 4.10.12.4: Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)*

Economics – *section 4.10.12.5: Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)*

English

English – Literature – *section 4.10.14.6: Bachelor of Arts (B.A.) - Major Concentration English Literature (36 credits)*

Gender, Sexuality, Feminist, & Social J

F

Faculty of Science Major Concentrations

Software Engineering – [section 4.10.10.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Software Engineering \(37 credits\)](#)

4.9.3 Honours Programs

The Honours programs available to B.A. & Sc. students are listed here.

Honours Programs open to B.A. & Sc. students

[section 4.10.9: Cognitive Science](#) – [section 4.10.9.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Honours Cognitive Science \(60 credits\)](#)

Environment – see [Bieler School of Environment > Undergraduate > Browse Academic Programs > Honours Program in Environment > section 7.7.6.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Honours Environment \(60 credits\)](#)

[section 4.10.35: Sustainability, Science and Society](#) – [section 4.10.35.4: Bachelor of Arts and Science \(B.A. & Sc.\) - Honours in Sustainability, Science and Society \(60 credits\)](#)

Students interested in an Honours degree should also consider the [section 4.9.4: Joint Honours Programs](#).

4.9.4 Joint Honours Programs

Joint Honours programs in the B.A. & Sc. are created by combining a Joint Honours program component from an Arts discipline with one from a Science discipline. Students must register for both Joint Honours program components. Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

4.9.4.1 Faculty of Arts

The Arts Joint Honours components available to B.A. & Sc. students are listed here.

Faculty of Arts Joint Honours Programs

Anthropology – [section 4.10.3.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Anthropology \(36 credits\)](#)

Art History – [section 4.10.4.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Art History \(36 credits\)](#)

Classics – [section 4.10.19.5: Bachelor of Arts \(B.A.\) - Joint Honours Component Classics \(36 credits\)](#)

East Asian Studies – [section 4.10.12.5: Bachelor of Arts \(B.A.\) - Joint Honours Component East](#)

Faculty of Arts Joint Honours Programs

Religious Studies - Asian Religions – *section 4.10.32.2: Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Asian Religions (36 credits)*

Religious Studies - Western Religions – *section 4.10.32.3: Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Western Religions (36 credits)*

Russian – *section 4.10.25.15: Bachelor of Arts (B.A.) - Joint Honours Component Russian (36 credits)*

Sociology – *section 4.10.34.3: Bachelor of Arts (B.A.) - Joint Honours Component Sociology (36 credits)*

World Islamic and Middle East Studies – *section 4.10.36.7: Bachelor of Arts (B.A.) - Joint Honours Component World Islamic & Middle East Studies (36 credits)*

4.9.4.2 Faculty of Science

There are currently only two Science Joint Honours components a

- The Major Concentration in Psychology may not provide a sufficiently focused background for admission to many graduate programs in Psychology;
- The Major Concentration in Chemistry is not certified by the *Ordre des Chimistes du Québec*. Students interested in pursuing a career in Chemistry in Quebec are advised to take an appropriate B.Sc. program in Chemistry.

For further details, refer to information about the B.A. & Sc. Freshman P 0 0 1 310 0 1 67.52 688en Chemistry in

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

At most two of another Foundational Science:

COMP 202*	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
PSYC 100*	(3)	Introduction to Psychology

* Note: Students in a minor or major concentration where COMP 202 or PSYC 100 is a required course will need to take an alternative COMP or PSYC course if using COMP 202 or PSYC 100 to satisfy the Freshman Program requirement.

ARTS

At least three Arts courses (or 9 credits) to be chosen in two of the following three categories: Humanities, Languages, and Social Sciences.

A maximum of two courses (or 6 credits) may be chosen from one category, and no more than two courses (or 6 credits) can be taken in any one department.

Note: No course may fulfil the requirements for more than one program, including the B.A. & Sc. Freshman Program.

Humanities (Literature and Civilization):

Courses selected from the following subjects:

- Art History and Communications Studies (ARTH and COMS)
- Classics (CLAS)
- East Asian Studies (EAST)
- English (ENGL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (HISP)
- Islamic Studies (ISLA)
- Italian studies (ITAL)
- Jewish Studies (JWST)
- Music for Arts (MUAR only)
- Philosophy (PHIL)
- Religious Studies (RELG)
- Russian Studies (RUSS)

Languages:

Courses may be taken in this category to improve language skills.

Languages include:

- Classics (Latin, Ancient Greek, Modern Greek) (CLAS)
- East Asian Studies (Chinese, Japanese, Korean) (EAST)
- English as a Second Language (CEAP, CESL)
- French as a Second Language (FRSL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (Spanish) (HISP)
- Islamic Studies (Arabic, Persian, Turkish, Urdu) (ISLA)
- Italian (ITAL)
- Jewish Studies (Hebrew, Yiddish) (JWST)
- Russian and Slavic Studies (Polish, Russian, Armenian, Czech) (RUSS)

Social Sciences:

Courses selected from the following subjects:

- Anthropology (ANTH)
- Economics (ECON)
- History (HIST)
- Linguistics (LING)
- Political Science (POLI)
- Sociology (SOCl)

Advanced Standing/Transfer Credits

Students who have completed the Diploma of Collegial Studies, Advanced Placement exams, Advanced Levels, the International Baccalaureate, the French Baccalaureate, or McGill placement examinations may receive exemption and/or credit for all or part of the Mathematics and foundational science courses as well as exemption from all or part of the Arts courses requirement of the Freshman Program. Similarly, students who have completed courses at other universities or colleges may receive exemptions and/or credits.

Advanced Placement Examination results with a score of 4 or 5 must be declared by the student at the time of initial registration at the University.

For more information about advanced standing, please consult: <http://www.mcgill.ca/students/transferecredit/>. Students must carefully select their mathematics and science Freshman courses so that they have all the required prerequisites for their intended departmental programs.

4.10.3 Anthropology (ANTH)

The Department of Anthropology, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.4: Anthropology \(ANTH\)](#).

4.10.3.1 Bachelor of Arts (B.A.) - Minor Concentration Anthropology (18 credits)

The Minor Concentration Anthropology permits students to explore the development and diversity of human beings and human society and culture through courses in human evolution, prehistoric archaeology, and socio-cultural anthropology. Students may include courses in all of these fields, or may focus on one or two.

This program may be expanded to the Major Concentration Anthropology.

Complementary Courses (18 credits)

6-9 credits from 200-level courses in Anthropology.

9-12 credits from any 300-, or 400-, or 500-level courses in Anthropology (only 3 credits of which can be at the 400 or 500 level. Only 1 Special Topic course can be taken.)

4.10.3.2 Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)

The Major concentration is especially appropriate for students who aim to take courses across several sub-disciplinary or topical concentrations, and for whom specialization is premature. There are no prerequisites for admission to the Major Concentration Anthropology. Students are encouraged to take a course in quantitative methods (listed under the Honours program), but this course cannot count as part of this concentration.

Complementary Courses (36 credits)

200 Level

6 credits selected from 200-level courses in Anthropology (ANTH).

Core (350 Level)

6 credits, from the following Core courses (350 level):

(Note: These are restricted to students in any Anthropology program with U2 standing or above.)

ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 357	(3)	Archaeological Methods
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

400 Level

6 credits, two 400-level

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

3-15 complementary courses chosen from among departmental course offerings. At least 9 of these credits must be at the 300 level or above.

Note: Courses in studio practice cannot be counted towards the Minor Concentration.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art

ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

COMS 230	(3)	Communication and Democracy
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 301	(3)	Core Concepts in Critical Theory
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
COMS 340	(3)	New Media
COMS 350	(3)	Sound Culture
COMS 354	(3)	Media Studies of Crime
COMS 355	(3)	Media Governance
COMS 361	(3)	Selected Topics Communication Studies 1
COMS 362	(3)	Selected Topics Communication Studies 2
COMS 400	(3)	Critical Theory Seminar
COMS 410	(3)	Cultures in Visualization
COMS 411	(3)	Disability, Technology and Communication
COMS 425	(3)	Urban Culture and Everyday Life
COMS 435	(3)	Advanced Issues in Media Governance
COMS 490	(3)	Special Topics in History and Theory of Media
COMS 491	(3)	Special Topics in Communications Studies
COMS 492	(3)	Power, Difference and Justice
COMS 495	(3)	Directed Reading
COMS 497	(3)	Independent Study
COMS 510	(3)	Canadian Broadcasting Policy

4.10.4.3 Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)

Revision, June 2021. Start of revision.

The Major Concentration in Art History concentrates on analysis of forms of visual and material culture from ancient to contemporary times. It provides a grounding in diverse fields and methods of the discipline.

Complementary Courses (36 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

21-33 complementary credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship).

Note: Courses in studio practice cannot be counted toward the Major concentration.

ARTH 200	(3)	Introduction to Art History 1
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	ARTH 202	(3)	Introduction to Contemporary Art
	ARTH 204	(3)	Introduction to Medieval Art and Architecture
	ARTH 205	(3)	Introduction to Modern Art
	ARTH 207	(3)	Introduction Early Modern Art 1400-1700
	ARTH 209	(3)	Introduction to Ancient Art and Architecture
	ARTH 215	(3)	Introduction to East Asian Art
	ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
	ARTH 225	(3)	Introduction to Seventeenth - Century Art
	ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
	ARTH 300	(3)	Canadian Art to 1914
	ARTH 302	(3)	Aspects of Canadian Art
	ARTH 310	(3)	Postcolonialism
	ARTH 314	(3)	The Medieval City
	ARTH 315	(3)	Indigenous Art and Culture
	ARTH 321	(3)	Visual Culture of the Dutch Republic
	ARTH 323	(3)	Realism and Impressionism
	ARTH 324	(3)	Sixteenth-Century Art in Italy
(3)	ARTH 325	(3)	Visual Culture Renaissance Venice
	ARTH 326	(3)	Studies in Manuscript and Print Culture
	ARTH 334	(3)	Eighteenth Century European Art
	ARTH 335	(3)	Art in the Age of Revolution
	ARTH 336	(3)	Art Now
	ARTH 337	(3)	Modern Art and Theory to WWI
	ARTH 338	(3)	Modern Art and Theory: WWI - WWII
	ARTH 339	(3)	Critical Issues - Contemporary Art
	ARTH 340	(3)	The Gothic Cathedral
	ARTH 351	(3)	Vision and Visuality in Art History
	ARTH 352	(3)	Feminism in Art and Art History
	ARTH 353	(3)	Selected Topics in Art History 1
	ARTH 354	(3)	Selected Topics Art History 2
	ARTH 356	(3)	Modern and Contemporary Chinese Art
	ARTH 357	(3)	Early Chinese Art
	ARTH 358	(3)	Later Chinese Art (960-1911)
	ARTH 360v	(3)	Studies in the Photographic

ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

Revision, June 2021. End of revision.

4.10.4.4 Bachelor of Arts (B.A.) - Joint Honours Component Art History (36 credits)

Revision, June 2021. Start of revision.

The Joint Honours Component Art History is a flexible program that emphasizes breadth, depth as well as art historical methods and research. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.50 for admission into the program and the awarding of Honours

Required Courses (6 credits)

ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (30 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

15-27 credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (other than ARTH 490 Museum Internship).

ARTH 200	(3)	Introduction to Art History 1
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ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain

ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
AR	(3)	Advanced Topics in Art and Architectural History

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
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
	(3)	Atmospheric Radiation

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Course (3 credits)

Any 3-credit biology course at the 300 level or higher approved by the Biology Adviser.

4.10.6.3 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Biology (36 credits)

The B.A. & Sc.; Major Concentration in Biology is a planned sequence of courses designed to promote a basic grounding in biology. Topics include a range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses (18 credits)

Students must take at least 36 new credits in this program.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 216	(3)	Biology of Behaviour

Complementary Courses (18 credits)

3-4 credits from CHEM block:

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1

*Students who have already taken CHEM 212 or its equivalent as advance credits may choose to substitute CHEM 204, or CHEM 222, or a 300-500 levels complementary Biology course, to be approved by the Biology Adviser.

3-4 credits from:

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 311	(3)	Advanced Methods in Organismal Biology

3 credits from:

BIOL 202	(3)	Basic Genetics
BIOL 302	(3)	Fundamentals of Genetics and Genomics

3 credits from:

BIOL 300	(3)	Molecular Biology of the Gene
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BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 308	(3)	Ecological Dynamics
BIOL 313	(3)	Eukaryotic Cell Biology

CANS 312	(3)	Topics in Canadian Public Affairs 2
CANS 315	(3)	Indigenous Art and Culture
CANS 401	(3)	Canadian Studies Seminar 1
CANS 402	(3)	Canadian Studies Seminar 2
CANS 404	(3)	Canadian Studies Seminar 4
CANS 405	(3)	Canadian Studies Seminar 5
CANS 406	(3)	Canadian Studies Seminar 6
CANS 412	(3)	Canada and Americas Seminar
CANS 413	(3)	Canada and Quebec Seminar
CANS 499	(3)	Internship - Canadian Studies

0-6 credits chosen from:

ANTH 338	(3)	Native Peoples of North America
ARTH 302	(3)	Aspects of Canadian Art
ECON 303	(3)	Canadian Economic Policy Industrial OaU

POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 478	(3)	The Canadian Constitution
QCST 300	(3)	Quebec Culture and Society
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar

Revision, June 2021. End of revision.

4.10.7.2 Bachelor of Arts (B.A.) - Minor Concentration Indigenous Studies (18 credits)

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Required Courses (6 credits)

INDG 200	(3)	Introduction to Indigenous Studies
INDG 401	(3)	Interdisciplinary Seminar in Indigenous Studies

Complementary Courses (12 credits)

HIST 223	(3)	Indigenous Peoples and Empires
HIST 303	(3)	History of Quebec
HIST 309	(3)	History of Latin America to 1825
HIST 333	(3)	Indigenous Peoples and French
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 408	(3)	Colonialism and Native Peoples

Indigenous Studies

INDG 202	(3)	Topics in Indigenous Studies 1
INDG 300	(3)	Topics in Indigenous Studies 2
INDG 301	(3)	Indigenous Contemporary Resistance
INDG 302	(3)	Introduction to Kanien'ké:ha
INDG 400	(3)	Seminar: Indigenous Studies
INDG 420	(3)	Indigenous Food Sovereignty
INDG 450	(3)	Rotinonhsón:ni Land-Based Pedagogy

Interdisciplinary Field Course

IDFC 500	(3)	Indigenous Field Studies
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Law

CMPL 500	(3)	Indigenous Peoples and the State
CMPL 500D1	(1.5)	Indigenous Peoples and the State
CMPL 500D2	(1.5)	Indigenous Peoples and the State

Linguistics

LING 211	(3)	Introduction to Indigenous Languages
LING 411	(3)	Structure of an Indigenous Language

Political Science

If any of the required courses are part of your primary program or were taken at CEGEP, then they must be substituted by courses from the minor options list that are not part of your primary program. The total number of credits exclusive to the minor is at least 19.

CHCe (3) Physical Chemistry/Biological Sciences 1

Chemistry courses at the 400+ level.

4.10.9 Cognitive Science

4.10.9.1 Location

Thomas Shultz; Director, Program in Cognitive Science
2001 McGill College, Room 712
Montreal QC H3A 1G1

PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy
PHIL 474	(3)	Phenomenology

Psychology

ANTH 440	(3)	Cognitive Anthropology
MUMT 250	(3)	Music Perception and Cognition
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 304	(3)	Child Development
PSYC 305	(3)	Statistics for Experimental Design
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
		Cogniti

PSYC 561 (3) Methods: Developmental Psycholinguistics

Neuroscience

* Students select either NSCI 200 or PHGY 209, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 507	(3)	Animal Communication
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
CHEM 212	(4)	Introductory Organic Chemistry 1
NEUR 310	(3)	Cellular Neurobiology
NSCI 200*	(3)	Introduction to Neuroscience 1
NSCI 300	(3)	Neuroethics
PHGY 209*	(3)	Mammalian Physiology 1
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYT 301	(3)	Issues in Drug Dependence
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 502	(3)	Brain Evolution and Psychiatry
PSYT 515	(3)	Advanced Studies in Addiction

Research Course

COGS 401

(6)

Research Cognitive Science 1

Bachelor of Arts and Science (B.A.

3 credits from the following psychology courses:

PSYC 212 (3) Perception

PSYC 213 (3) Cognition

Complementary Courses

30 credits are selected as follo

NSCI 300	(3)	Neuroethics
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy
PHIL 474	(3)	Phenomenology

Psychology

ANTH 440	(3)	Cognitive Anthropology
MUMT 250	(3)	Music Perception and Cognition
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 304	(3)	Child Development
PSYC 305	(3)	Statistics for Experimental Design
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
		Behavioural Neuroscience 2

PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication and Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics

Neuroscience

* Students select either NSCI 200 or PHGY 209, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 507	(3)	Animal Communication
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
CHEM 212	(4)	Introductory Organic Chemistry 1
NEUR 310	(3)	Cellular Neurobiology
NSCI 200*	(3)	Introduction to Neuroscience 1
NSCI 300	(3)	Neuroethics
PHGY 209*	(3)	Mammalian Physiology 1
PHGY 311*	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain

PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYT 301	(3)	Issues in Drug Dependence
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 502	(3)	Brain Evolution and Psychiatry
PSYT 515	(3)	Advanced Studies in Addiction

Research Course

COGS 401	(6)	Research Cognitive Science 1
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4.10.10 Computer Science (COMP)

The School of Computer Science and the discipline are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.9: Computer Science \(COMP\)](#).

The following are considered Science programs in the B.A. & Sc.:

- Minor Concentration in Computer Science
- Major Concentration in Computer Science
- Major Concentration in Software Engineering

4.10.10.1 Bachelor of Arts (B.A.) - Minor Concentration Computer Science (18 credits)

The Minor Concentration Computer Science is designed for students who want to gain a basic understanding of computer science principles and may be taken in conjunction with any program in the Faculty of Arts.

Students are strongly encouraged to talk to an adviser of the School before choosing their complementary courses to ensure they follow an approved course sequence.

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Required Courses (9 credits)

* Students who have sufficient knowledge of programming should not take COMP 202, and instead should replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (9 credits)

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364 and COMP 396.

COMP 230	(3)	Logic and Computability
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COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 280	(3)	History and Philosophy of Computing
MATH 240	(3)	Discrete Structures

4.10.10.2 Bachelor of Arts (B.A.) - Major Concentration Computer Science (36 credits)

This Major concentration represents an in-depth introduction to computer science and its sub-areas. Students that are interested in further study in Computer Science can combine the Major Concentration Computer Science with the Supplementary Minor in Computer Science to constitute a program very close to the Major Computer Science offered by the Faculty of Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Required Courses (18 credits)

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Notes for the list below:

* Students who have sufficient knowledge in programming do not need to take COMP 202 and should replace it with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 240	(3)	Discrete Structures

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from each of the groups A, B, C, and D:

Group A:

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 340	(3)	Discrete Mathematics

Group C:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

Group D:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from COMP 230 and COMP courses at the 300 level or above (except COMP 364, COMP 396).

4.10.10.3 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Software Engineering (37 credits)

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering."

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

4.10.11 Earth and Planetary Sciences (EPSC)

The Department of Earth and Planetary Sciences, the programs, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.10: Earth and Planetary Sciences \(EPSC\)](#).

4.10.11.1 Bachelor of Science (B.Sc.) - Minor Geology (18 credits)

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (12 credits)

3 credits, one of:

EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

EPSC 231	(3)	Field School 1
EPSC 303	(3)	Structural Geology
EPSC 334	(3)	Invertebrate Paleontology
EPSC 350	(3)	Tectonics
EPSC 452	(3)	Mineral Deposits
EPSC 561	(3)	Ore-forming Processes

4.10.12 East Asian Studies (EAST)

East Asian Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.9: East Asian Studies \(EAST\)](#).

4.10.12.1 Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
	(3)	Advanced Topics in Chinese Studies 1

EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 329	(3)	Modern Chinese Society and Change
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	(3)	Themes: Modern Japan
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380 (3) Cross Cultural Management

Political Science (POLI)

EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
		Third LeEAST 341

EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
		Special Topics: East

EAST 582 (3) Japanese Culture and Society

4.10.12.3 Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

4.10.12.4 Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)

Complementary Courses (36 credits)

Introduction to East Asian Culture

3-6 credits from the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits from the following:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2

EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 536	(3)	Chinese for Business 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Literature, Culture and Society

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies
EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 328	(3)	Archaeology East Asian Empires
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan

EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
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RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(3)	Japanese Esoteric Buddhism Zen Buddhism: Poetry and

EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia

Global Cinema and Media

EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 391 EAST 391	(3)	Inventing Modern Japanese Novel Japan in

Joint Honours students should consult an adviser in each of the relev

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
	(3)	Film Genre

ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

4.10.14.2 Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 230	(3)	Introduction to Theatre Studies
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Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

ENGL 407	(3)	The 20th Century
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 458	(3)	Theories of Text and Performance 1

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Author

3 credits on a Major Author:

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

Pre-1800

3 credits from a list of pre-1800 literature courses:

ENGL 300	(3)	The Seventeenth Century
ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 342	(3)	Introduction to Old English
ENGL 347	(3)	Great Writings of Europe 1
ENGL 348	(3)	Great Writings of Europe 2
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

ENGL 199	(3)	FYS: Form and Representation
ENGL 204	(3)	English Literature and the Bible
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

4.10.14.4 Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm wipcs8m 0 1 139.32

ENGL 383

(3)

Studies in Communications 1

T

ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Option's Offerings - Additional Courses

12 additional credits from the option's offerings.

This category includes all the courses listed above except required courses, as well as the courses listed below.

Note: Any English course not on the lists specifically for the Drama and Theatre option—such as unlisted courses in Cultural Studies—may not count toward the Drama and Theatre program. Please consult a departmental adviser for guidance on course choices.

ENGL 314	(3)	20th Century Drama
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 375	(3)	Interpretation Dramatic Text
ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 434	(3)	Independent Theatre Project
ENGL 458	(3)	Theories of Text and Performance 1
ENGL 459	(3)	Theories of Text and Performance 2

Drama and Theatre - Courses of Interest - Other Departments

Students are normally permitted to count 6 credits from other departments toward their English programs. In exceptional circumstances, an adviser, approached by a student with strong academic grounds for including a third such course, may grant permission, to a maximum of 9 extra-departmental credits, and must so indicate in advance by signing the departmental program audit sheet.

This list comprises courses in other departments that might be accepted by an adviser for credit toward the student's Drama and Theatre program. This list applies only to these courses as they are offered in the current academic year.

There might be other courses in the Faculty of Arts for which a student could receive Drama and Theatre program credit. A student who has identified a course not noted below, should show their program adviser the course syllabus in advance and, if he or she agrees, get the adviser's initialled approval of the course on their program audit sheet. The Department requires a complete signed audit sheet in the student's file in Arts 155 in order to process the file for graduation.

Included in the list are courses taught in languages other than English and courses that have prerequisites.

* Note: The courses in the list below with an asterisk ("*") have an historical dimension and may count toward this program requirement. Other courses could count toward the "option's offerings" component of the program.

EAST 464	(3)	Image, Text, Performance
HISP 324*	(3)	20th Century Drama
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

4.10.14.6 Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)

The Literature option provides a grounding in the basic texts and methods of the discipline as well as wide acquaintance with substantial areas of the field.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Canadian Literature

3 credits from a list of Canadian Literature courses:

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature
ENGL 411	(3)	Studies in Canadian Fiction

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
		Materiality and Sociology of TENGL 318

ENGL 405 (3) Studies in 19th Century Literature 2

19th Century American

ENGL 326 (3) 19th Century American Prose

ENGL 422 (3) Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

ENGL 361 (3) Poetry of the 20th Century 1

ENGL 414 (3) Studies in 20th Century Literature 1

Modernist

ENGL 335 (3) The 20th Century Novel 1

ENGL 361 (3) Poetry of the 20th Century 1

ENGL 414 (3) Studies in 20th Century Literature 1

ENGL 418 (3) A Major Modernist Writer

Post-modernist

ENGL 320 (3) Postcolonial Literature

ENGL 339 (3) Canadian Prose Fiction 2

ENGL 443 (3) Contemporary Women's Fiction

Contemporary

ENGL 320 (3) Postcolonial Literature

ENGL 333 (3) Development of Canadian Poetry 2

ENGL 336 (3) The 20th Century Novel 2

ENGL 339 (3) Canadian Prose Fiction 2

ENGL 362 (3) Poetry of the 20th Century 2

ENGL 407 (3) The 20th Century

ENGL 408 (3) The 20th Century

ENGL 419 (3) Studies in 20th Century Literature

ENGL 443 (3) Contemporary Women's Fiction

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories above and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count toward the Major Concentration in English - Literature.

ENGL 199 (3) FYS: Form and Representation

ENGL 204 (3) English Literature and the Bible

ENGL 237 (3) Introduction to Study of a Literary Form

ENGL 297 (3) Special Topics of Literary Study

ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

Major Author

3 credits on a Major Author must be included in the 27 complementary course credits.

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

4.10.14.7 Bachelor of Arts (B.A.) - Joint Honours Component English - Cultural Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered91 0 0 1 226.25 6yP 0 8tac.m(o)Tj1 0 4 1 4forc1 0 0 1 24hds2F

ENGL 359

(3)

The Poetics of the Image

Complementary Cour

ENGL 416	(3)	Studies in Shakespeare
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900
ENGL 516	(3)	Shakespeare
ENGL 566	(3)	Special Studies in Drama 1

Performance-Oriented Courses

3 credits from the list of Performance-Oriented courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 373	(3)	Voice and Speech 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1*	(4.5)	Theatre Laboratory
ENGL 465D2*	(4.5)	Theatre Laboratory
ENGL 466D1**	(3)	Directing for the Theatre
ENGL 466D2**	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3
ENGL 565	(3)	Drama Workshop

*, ** Note: Spanned credits. The amount over 3 credits can be attributed to Departmental Offerings credits.

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

4.10.14.9 Bachelor of Arts (B.A.) - Joint Honours Component English - Literature (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is av

ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics
ENGL 360	(3)	Literary Criticism

Complementary Courses (24 credits)

24 credits selected as described below.

In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above. At least 3 of the 24 credits must be devoted to a course on a Major Author as indicated under the rubrics dedicated to these offerings in each year's list of Complementary Courses on the Department of English website (http://www.mcgill.ca/eweb/eng/eng_courses/eng_courses.htm). In addition to the 6-credit requirement for Advanced Study described below, all Joint Honours students' programs of study shall include 6 credits of study at the 400 level or above. Students are encouraged to take courses at the 300 level and above. At least 3 of the 24 credits must be devoted to a course on a Major Author as indicated under the rubrics dedicated to these offerings in each year's list of Complementary Courses on the Department of English website (http://www.mcgill.ca/eweb/eng/eng_courses/eng_courses.htm).

ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century
ENGL 516	(3)	Shakespeare

Areas of English Literature

ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 421	(3)	African Literature
ENGL 443	(3)	Contemporary Women's Fiction

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Department Offerings

6 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

4.10.15 Environment

The Bieler School of Environment offers programs open to Bachelor of Arts and Science students; please refer to [Bieler School of Environment > Undergraduate](#) for more information.

- Minor: [section 7.7.1: Minor in Environment](#)
-

12 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

3 crédits choisis parmi les cours du bloc « Pratiques ».

ORIENTATION B : « Pratiques littéraires »

12 crédits choisis parmi les cours d'au moins deux séries différentes du bloc « Pratiques » ;

3 crédits choisis parmi les cours du bloc « Études ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
		Littérature du 20e siècle 120e si

FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *1	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1

CCTR 455 *7	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *7	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *7	(1.5)	Transcreation (English to French)
CCTR 507 *8	(3)	Editing and Revising (French)
CCTR 535 *9	(3)	Computer-Aided Translation and Terminology
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

4.10.16.2 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)

Le programme « Concentration mineure en Langue et littérature françaises (option « Langue française ») » est offert en collaboration avec le Centre d'enseignement du français. Il s'adresse à des étudiant(e)s de français langue seconde qui ont déjà une bonne connaissance de la langue. Il vise l'acquisition d'un niveau de français équivalent au niveau B2 (« utilisateur expérimenté ») du Cadre européen de référence pour les langues dans les sphères universitaire, professionnelle, publique et personnelle.

FRSL 408 (3) Français oral: Textes et expressions

De 0 à 6 crédits choisis parmi les cours ci-dessous :

FRSL 431 (6) Français fonctionnel avancé

De 3 à 12 crédits choisis parmi les cours ci-dessous :

FRSL 445 (3) Français fonctionnel, écrit 1

FRSL 446 (3) Français fonctionnel, écrit 2

FRSL 449 (3) Le français des médias

FRSL 455 (3) Grammaire et création

+ Le cours QCST 336 (« Quebec Studies Summer Seminar ») (6 cr.) peut être suivi en remplacement de 6 crédits de cours FRSL. La substitution nécessite cependant l'autorisation préalable du conseiller ou de la conseillère académique du Centre d'enseignement du français.

De 3 à 15 crédits choisis parmi les cours FREN suivants (ou leurs équivalents) ++ :

CCTR 219 *1 (3) Fundamentals of Comparative Stylistics and Writing (French)

CCTR 225 *2 (3) Introduction to Translation (English to French)

CCTR 325 *3 (3) Semi-Specialized Translation (English to French)

CCTR 326 *4 (3) Semi-Specialized Translation (French to English)

FREN 201 (3) Le français littéraire (français langue seconde)

FREN 203 (3) Analyse de textes (français langue seconde)

FREN 231 (3) Linguistique française

FREN 239 *1 (3) Stylistique comparée

FREN 244 *2 (3) Traduction générale

FREN 245 (3) Grammaire normative

FREN 250 (3) Littérature française avant 1800

FREN 251 (3) Littérature française depuis 1800

FREN 252 (3) Littérature québécoise

FREN 346 *3 (3) Traduction avancée

FREN 441 *5 (3) Traduction français-anglais

++ Pour s'inscrire aux cours FREN 201 ou FREN 203, l'étudiant(e) s'assurera d'avoir réussi le FRSL 431 ou d'avoir réussi ou être inscrit(e) à au moins un des cours suivants : FRSL 445, FRSL 446, FRSL 449 ou FRSL 455.

*1 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*2 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*3 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

4.10.16.3 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et litt. françaises - Traduction (18 crédits)

Le programme de « Concentration mineure en Langue et littérature françaises (option « Traduction ») » offre une introduction à la traduction de l'anglais vers le français. Il favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission nécessite une bonne connaissance du français.

CCTR 225 *1	(3)	Introduction to Translation (English to French)
CCTR 325 *2	(3)	Semi-Specialized Translation (English to French)
FREN 244 *1	(3)	Traduction générale
FREN 346 *2	(3)	Traduction avancée

*1 L'étudiant(e) doit suivre le FREN 244 ou le CCTR 225.

*2 L'étudiant(e) doit suivre le FREN 346 ou le CCTR 325.

COURS COMPLÉMENTAIRES (12 crédits)

6 à 9 crédits choisis parmi les cours suivants :

CCTR 219 *3	(3)	Fundamentals of Comparative Stylistics and Writing (French)
CCTR 326 *4	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 453 *6	(1.5)	Technical Translation: Information Technology (English to French)
CCTR 455 *6	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *6	(1.5)	Financial Translation: Investments (English to French)
CCTR 459* 6	(1.5)	Transcreation (English to French)
CCTR 507 *7	(3)	Editing and Revising (French)
CCTR 535 *8	(3)	Computer-Aided Translation and Terminology
FREN 239 *3	(3)	Stylistique comparée
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347 *8	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 *4	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 494 *6	(3)	Traduction spécialisée

*3 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*6 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*8 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

3 à 6 crédits choisis parmi les cours suivants :

CCTR 331 *9	(3)	Current Trends in Translation Studies
FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800

FREN 252	(3)	Littérature québécoise
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *9	(3)	Théories de la traduction
FREN 425 *9	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

*9 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.16.4 Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)

Ce programme offre une formation générale qui inclut l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. Cette formation vise également à f3u1

FREN 422 (3) Le métier d'écrivain-e

au moins 6 crédits choisis parmi les cours de la série « Création » ;

0 à 6 crédits choisis parmi les cours du bloc « Pratiques ».

I) BLOC : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1

FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) CS/FLE 3.116.001 67.52 645.327 T721 Tmm(Th)Tj/F9 8.3 Tf(T)/F0387.16364.84Atelie1 **1

CCTR 331 *1	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1
FREN 394 *1	(3)	Théories de la traduction

Enjeu 018 700595920160 065 5241280010 066270 84 105180122010204034031 65860 543(3)071003

CCTR 507 *8	(3)	Editing and Revising (French)
CCTR 535 *9	(3)	Computer-Aided Translation and Terminology
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

4.10.16.5 Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)

Le programme de « Concentration majeure en Langue et littérature françaises (option « Traduction ») » offre une formation générale en traduction de l'anglais vers le français. D'abord pratique, cette formation fournit également des assises théoriques sur le fonctionnement de la langue ou les enjeux de la traduction. Elle favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français, compétences que l'étude de la littérature de langue française viendra renforcer. L'admission au programme nécessite une bonne connaissance du français et de l'anglais lus et écrits, de même que du français parlé ; cette connaissance est vérifiée à l'aide d'un test de classement, à la suite duquel l'étudiant(e) peut se voir assigner des

CCTR 326 *4	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 453 *6	(1.5)	Technical Translation: Information Technology (English to French)
CCTR 455 *6	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *6	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *6	(1.5)	Transcreation (English to French)
CCTR 507 *7	(3)	Editing and Revising (French)
CCTR 535 *8	(3)	Computer-Aided Translation and Terminology
FREN 239 *3	(3)	Stylistique comparée
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347 *8	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 *4	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 494 *6	(3)	Traduction spécialisée

*3 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*6 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*8 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

De 3 à 6 crédits choisis parmi les cours suivants:

CCTR 331 *9	(3)	Current Trends in Translation Studies
FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *9	(3)	Théories de la traduction
FREN 425 *9	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

*9 L'étudiant(e) peut suivre FREN 394 et/ou le FREN 425 ou le CCTR 331.

6 à 9 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800).

0 à 3 crédits choisis parmi les séries « Création » et « Édition » du bloc « Pratiques ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

II) BLOC: PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série: « Édition »

FREN 376	(3)	Correction et révision
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CCTR 326 *3	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 507 *4	(3)	Editing and Revising (French)
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 349	(3)	Traduction et recherche 2
FREN 431 *4	(3)	Traduction et révision
FREN 441 *3	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2

*3 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*4 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

De 3 à 6 crédits choisis parmi les cours suivants :

CCTR 331 *6	(3)	Current Trends in Translation Studies
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *6	(3)	Théories de la traduction
FREN 425 *6	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

I) BLOC : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800 Littérature franç
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FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *6	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1
FREN 394 *6	(3)	Théories de la traduction
FREN 420	(3)	Enjeux de l'écriture littéraire
FREN 422	(3)	Le métier d'écrivain-e
FREN 425 *6	(3)	Traduction et culture
FREN 496	(3)	Savoirs de la littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

(c) Série « Traduction »

CCTR 219 *7	(3)	Fundamentals of Comparative Stylistics and Writing (French)
CCTR 225 *1	(3)	Introduction to Translation (English to French)
CCTR 325 *2	(3)	Semi-Specialized Translation (English to French)
CCTR 326 *3	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 453 *8	(1.5)	Technical Translation: Information Technology (English to French)
CCTR 455 *8	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *8	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *8	(1.5)	Transcreation (English to French)
CCTR 507 *4	(3)	Editing and Revising (French)
CCTR 535 *9	(3)	Computer-Aided Translation and Terminology
FREN 239 *7	(3)	Stylistique comparée
FREN 244 *1	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *2	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *4	(3)	Traduction et révision
FREN 441 *3	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *8	(3)	Traduction spécialisée

*1 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*2 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*3 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*4 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*8 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

4.10.17 Gender, Sexuality, and Feminist Studies

Institute for Gender, Sexuality, and Feminist Studies, its programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.17: Gender, Sexuality, and Feminist Studies](#).

4.10.17.1 Bachelor of Arts (B.A.) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies (18 credits)

The Minor Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships.

Complementary Courses (18 credits)

3 credits from the following:

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies

3 credits Gender, Sexuality Feminist, and Social Justice Studies (GSFS) from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 3 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

12 credits from the following:

Minimum of 6 credits must be at the 300 level or higher. Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 3 transfer credits may be accepted from approved exchange programs subject to University approval.

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 341	(3)	Women in Cross-cultural Perspective

ANTH 342	(3)	Gender, Inequality and the State
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1

GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
		Women Making Music

PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 446*	(3)	Current Issues in Political Philosophy
POLI 366*	(3)	Topics in Political Theory 1
POLI 422*	(3)	Developing Areas/Topics 2
POLI 423*	(3)	Politics of Ethno-Nationalism
POLI 432*	(3)	Selected Topics: Comparative Politics
POLI 444*	(3)	Topics in International Politics 2

Complementary Courses (24 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

15 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 9 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

15 credits from the following:

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture

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GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
MUAR 250	(3)	Women Making Music
MUAR 399	(3)	Music and Queer Identity
PHIL 242	(3)	Introduction to Feminist Theory
PHIL 442	(3)	Topics in Feminist Theory
PHIL 446*	(3)	Current Issues in Political Philosophy
POLI 366*	(3)	Topics in Political Theory 1
POLI 422*	(3)	Developing Areas/Topics 2
POLI 423*	(3)	Politics of Ethno-Nationalism
POLI 432*	(3)	Selected Topics: Comparative Politics
POLI 444*	(3)	Topics in International Politics 2
PSYC 436	(3)	Human Sexuality and Its Problems
RELG 256	(3)	Women in Judaism and Islam
RELG 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues

Women and the Christian T

EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History

HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean History of South

SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

Note: Courses marked with an asterisk (*) are acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

4.10.18 Geography (GEOG)

The Department of Geography information, programs, and courses are described in:

- [Faculty of Arts](#) > Undergraduate > Browse Academic Units & Programs > [section 3.10.18: Geography \(GEOG\)](#)
- [Faculty of Science](#) > Undergraduate > Browse Academic Units & Programs > [section 11.13.17: Geography \(GEOG\)](#)



Note: Students may take a Geography program either in Arts or in Science, but not both.

The following are considered **Arts** programs in the B.A. & Sc.:

Minor Concentration GIS & Remote Sensing
 Minor Concentration Geography
 Minor Concentration Geography (Urban Studies)
 Minor Concentration Health Geography
 Major Concentration Geography
 Major Concentration Geography (Urban Studies)
 Joint Honours Component Geography

The following are considered **Science** programs in the B.A. & Sc.:

Minor GIS & Remote Sensing
 Minor Geography
 Major Concentration Geography (Physical Geography)

The following is an **Interdisciplinary** program:

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9 credits from Geography (GEOG) courses at the 300 or 400 level.

4.10.18.2 Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Studies) (18 credits)

Revision, May 2021. Start of revision.

This concentration exposes students to various approaches to urban studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety

Political Science

POLI 318	(3)	Comparative Local Government
POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 222	(3)	Urban Sociology
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
	(3)	Neighborhoods and Inequality

3 credits from the following:

ATOC 309	(3)	Weather Radars and Satellites
GEOG 306*	(3)	Raster Geo-Information Science
GEOG 307*	(3)	Socioeconomic Applications of GIS
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 384*	(3)	Principles of Geospatial Web
GEOG 506*	(3)	Advanced Geographic Information Science
GEOG 535*	(3)	Remote Sensing and Interpretation
GEOG 551	(3)	Environmental Decisions

* may be taken in either list of complementary courses, but credits from one group may not be double counted in the other.

4.10.18.4 Bachelor of Arts (B.A.) - Minor Concentration Health Geography (18 credits)

There is increasing consensus around the idea that health is not just an expression of individual characteristics but an interaction between the characteristics of the individual and the environments, both physical and social, to which one is exposed over a lifetime of daily living and working. Health outcomes vary dramatically by physical and social characteristics of places both within and between countries and these provide a wedge for our understanding of the factors that might be modified to improve the health of large groups of people. The B.A.; Minor Concentration in Health Geography introduces students to both local and global health issues and provides a skill set in spatial and statistical analyses of diverse health outcomes in populations.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change

Complementary Courses (6 credits)

3 credits from:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World

3 credits from:

GEOG 503	(3)	Advanced Topics in Health Geography
PPHS 501*	(3)	Population Health and Epidemiology
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
SOCI 309	(3)	Health and Illness
SOCI 365*	(3)	Health and Development
SOCI 525*+	(3)	Health Care Systems in Comparative Perspective

+ Students can take PPHS 525 OR SOCI 525

* These courses may have additional prerequisites or restrictions.

4.10.18.5 Bachelor of Science (B.Sc.) - Minor Geography (18 credits)

The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic elements of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (6 credits)

GEOG 203	(3)	Environmental Systems
GEOG 216	(3)	Geography of the World Economy

Complementary Courses (12 credits)

3 credits of Geography courses at the 200 level below.

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GEOG 221	(3)	Environment and Health
GEOG 272	(3)	Earth's Changing Surface

9 credits at a 300 and 400 level from any Geography course.

4.10.18.6 Bachelor of Science (B.Sc.) - Minor GIS & Remote Sensing (18 credits)

The Minor GIS & Remote Sensing program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Course (6 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 314	(3)	Geospatial Analysis

Complementary Courses (12 credits)

3 credits selected from:

COMP 202	(3)	Foundations of Programming
GEOG 333	(3)	Introduction to Programming for Spatial Sciences

3 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 414*	(3)	Advanced Geospatial Analysis

6 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System

GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

4.10.18.8 Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)

This program is designed to cover the main elements of human geography.

Required Courses (7 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 210	(3)	Global Places and Peoples
GEOG 290	(1)	Local Geographical Excursion

Complementary Courses (30 credits)

30 credits selected as follows:

Physical Geography

3 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

(3)	Urban Field Studies
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GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research

Revision, May 2021.

GEOG 210*	(3)	Global Places and Peoples
GEOG 216*	(3)	Geography of the World Economy
GEOG 221*	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 32ph	(3)	New Master-Planned Cities

POLI 337 (3) Canadian Public Administration

Sociology

SOCI 222 (3) Urban Sociology
SOCI 230 (3) Sociology of Ethnic Relations
SOCI 333 (3) Social Stratification
SOCI 366 (3) Neighborhoods and Inequality
SOCI 388 (3) Crime

Urban Planning

URBP 201 (3) Planning the 21st Century City
URBP 501 (2) Principles and Practice 1
URBP 504 (3) Planning for Active Transportation
URBP 505 (3) Geographic Information Systems
URBP 506 (3) Environmental Policy and Planning
URBP 530 (3) Urban Infrastructure and Services in International Context
URBP 536 (2) Current Issues in Transportation 1
URBP 537 (2) Current Issues in Transportation 2
URBP 551 (3) Urban Design and Planning
URBP 556 (3) Urban Economy: A Spatial Perspective

4.10.18.10 Bachelor of Arts (B.A.) - Joint Honours Component Geography (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections
CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NO

Complementary Courses (33 credits)

33 credits from one of the following two streams.

Classical Languages Stream

33 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Classical Studies Stream

6 credits in the following:

CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society

27 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits intermediate Ancient Greek and/or Latin.

CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections

NOTE: Minimum 6 credits 400-level CLAS courses.

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Note: For either stream students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

4.10.19.4 Bachelor of Arts (B.A.) - Major Concentration History (36 credits)

The Major Concentration History is a highly flexible program that emphasizes both breadth and depth, while introducing students to different historical theories and methodologies. Students select from a wide variety of courses on diverse cultures and societies around the world from antiquity to contemporary

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- Maximum 15 credits of complementary courses at the 200-level or lower
- Minimum 6 credits of 400- or 500- level courses. Note: students may use at most 3 credits of HIST 413 or 499 to fulfill this requirement.

Group A:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 211	(3)	American History to 1865
HIST 212	(3)	Medieval Europe
HIST 214	(3)	Early Modern Europe
HIST 215	(3)	Modern Europe
HIST 216	(3)	Introduction to Russian History
HIST 221	(3)	United States since 1865
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 250	(3)	Making Great Britain and Ireland

Group B:

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 205	(3)	Ancient Mediterranean History
HIST 206	(3)	Indian Ocean World History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 210	(3)	Introduction to Latin American History
HIST 218	(3)	Modern East Asian History
HIST 275	(3)	Ancient Roman History

Group C:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 600-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 223	(3)	Indigenous Peoples and Empires
HIST 238	(3)	Histories of Science
HIST 240	(3)	Modern History of Islamic Movements
		Health and the Heal7r9ey

HIST 262	(3)	Mediterranean and European Interconnections
HIST 292	(3)	History and the Environment
HIST 298	(3)	Topics in History
HIST 299	(3)	The Historian's Craft

All undergraduate-level HIST courses.

Courses offered by other units

The following non-HIST courses may be counted as complementary courses toward a history program. Faculty regulations stipulate that a course may not be counted toward more than one program.

CLAS 304	(3)	Ancient Greek Democracy
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
JWST 240	(3)	The Holocaust
JWST 245	(3)	Jewish Life in the Islamic World
JWST 303	(3)	The Soviet Jewish Experience
JWST 311	(3)	Gender in Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 366	(3)	History of Zionism

4.10.19.5 Bachelor of Arts (B.A.) - Joint Honours Component Classics (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". The Joint Honours Component Classics emphasizes the study of ancient Greek and Latin: proficiency in both languages is required, advanced coursework is required in at least one of the classical languages. The program is designed for students who wish to pursue graduate studies in classics or related disciplines (such as ancient History), or 86Ograduurs prog

Note: students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

4.10.19.6 Bachelor of Arts (B.A.) - Joint Honours Component History (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. The Joint Honours Component History is a flexible program that emphasizes breadth, depth as well as historical methods and research.

Students wishing to complete the Joint Honours History Component should consult a Program Adviser at the beginning of their first year to map out a course of study, and fill out a departmental program advising/audit form. For more information, visit the program's website: <http://www.mcgill.ca/history/undergraduate>. Students must also fulfill program requirements in the second honours component and should consult an adviser in that program.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Required Course (3 credits)

HIST 399 (3) History and Historiography

Complementary Courses (33 credits)

33 credits of history courses (HIST courses or selected courses offered in other units - see list below) according to the following requirements.

Distribution requirement:

- 3 credits from Group A
- 3 credits from Group B
- 3 credits from Group C

Temporal Breadth requirement:

- At least 3 credits focused on the period before 1800
- At least 3 credits focused on the period after 1800

Notes: The same course may be used to satisfy both a Distribution and Temporal Breadth requirement. HIST 299 and HIST 399 may not be used to satisfy Temporal Breadth requirements.

Level requirement:

- 6 credits honours seminar (500-level D1/D2)
- Minimum 3 additional credits 400-level or higher HIST courses
- Maximum 12 credits complementary courses at 200-level

GPA requirements - 3.30 in program courses, 3.0 (B) or higher in each program course, cGPA 3.0 or higher

HIST 206	(3)	Indian Ocean World History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 210	(3)	Introduction to Latin American History
HIST 218	(3)	Modern East Asian History
HIST 275	(3)	Ancient Roman History

Group C:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 213	(3)	World History, 600-2000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 223	(3)	Indigenous Peoples and Empires
HIST 238	(3)	Histories of Science
HIST 240	(3)	Modern History of Islamic Movements
HIST 249	(3)	Health and the Healer in Western History
HIST 262	(3)	Mediterranean and European Interconnections
HIST 292	(3)	History and the Environment
HIST 298	(3)	Topics in History
HIST 299	(3)	The Historian's Craft

All undergraduate-level HIST courses.

Courses Offered by Other Units

The following non-HIST courses may be counted as complementary courses toward a history program. Faculty regulations stipulate that a course may not be counted toward more than one program.

CLAS 304	(3)	Ancient Greek Democracy
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
JWST 240	(3)	The Holocaust
JWST 245	(3)	Jewish Life in the Islamic World
JWST 303	(3)	The Soviet Jewish Experience
JWST 311	(3)	Gender in Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 366	(3)	History of Zionism

4.10.19.7 Bachelor of Arts (B.A.) - Minor Concentration South Asian Studies (18 credits)

The B.A.: Minor Concentration in South Asian Studies offers breadth and depth on the history, literature, languages, politics, religions, cultures, and societies of South Asia. The minor concentration is divided into two streams, "Culture and Civilization" and "Languages." An interdisciplinary curriculum is collaboratively offered by the Department of Anthropology, English, History and Classical Studies, Political Science, and Sociology, the Institute of Islamic Studies, and the School of Religious Studies, and is complemented by language instruction in Persian, Sanskrit, Tibetan, and Urdu-Hindi.

Complementary Courses (18 credits)

18 credits from one of the following streams:

Stream 1: Culture and Civilization

Note: As course content may change according to the offering unit's yearly curriculum, all classes listed must be approved in consultation with the South Asian Studies adviser as relevant to the Minor Concentration. Students should refer to the eCalendar to confirm any prerequisites for the following courses.

Introductory Curriculum

6 credits from the following:

ANTH 327	(3)	Anthropology of South Asia
ANTH 361	(3)	Archaeology of South Asia
ENGL 297	(3)	Special Topics of Literary Study
HIST 209	(3)	Introduction to South Asian History
ISLA 330	(3)	Islamic Mysticism: Sufism
POLI 322	(3)	Political Change in South Asia
RELG 252	(3)	Hinduism and Buddhism
RELG 254	(3)	Introduction to Yoga Traditions

Intermediate and Advanced Curriculum

12 credits from the following:

ANTH 308	(3)	Political Anthropology 01
ANTH 510	(3)	Advanced Problems in Anthropology of Religion
ENGL 336	(3)	The 20th Century Novel 2
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 408	(3)	The 20th Century
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 481	(3)	History of Bangladesh and Pakistan
ISLA 305	(3)	Topics in Islamic History
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 489	(3)	Special Topics 6
ISLA 555	(3)	Urdu Poetry
ISLA 581	(3)	Special Topics 1
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 353	(3)	Gandhi: His Life and Thought
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 388	(3)	Introduction to Sikhism

Indian Ocean Religious NetworkTm(RELG 372)Tj1 0 0 614442 Tm((3))Tj1 0 0 1 1 0 0 614442 Tm4(RELG 344)Tj1 0 0

RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
SOCI 370	(3)	Sociology: Gender and Development
SOCI 550	(3)	Developing Societies

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

Students may apply up to 6 credits in South Asian language study, with approval from the adviser.

Stream 2: Language

Either 18 credits in one of the following languages: Persian, Sanskrit, Tibetan, or Urdu-Hindi, from the courses listed below.

Or 18 credits of combined language study from courses listed below, consisting of 6 credits of one of Persian, Sanskrit, Tibetan, or Urdu-Hindi and 12 credits of another South Asian language from the courses listed below.

Note: Students should refer to the eCalendar to confirm any prerequisites for the following courses.

PERSIAN

Revision, May 2021. Start of revision.

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Revision, May 2021. End of revision.

SANSKRIT

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit

TIBETAN

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

URDU-HINDI

Revision, April 2021. Start of revision.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 rele

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
CHEM 504	(3)	Drug Design
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
NSCI 201	(3)	Introduction to Neuroscience 2
NUTR 307	(3)	Metabolism and Human Nutrition
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 503	(3)	Drug Discovery and Development 1

PHAR 504	(3)	Drug Discovery and Development 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
		Introductory BehaIntr2 Tm(Introductory Beha)Tj1 0 0 1 26

SOCI 390	(3)	Gender and Health
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

Empirical Science and Technology

At least 3 credits from:

* Students who have already received credit for MATH 324 will NOTAO.cj1 0 0 1 288. 0

COMS 210 (3) Introduction to Communication Studies

History and Philosophy of Science (HPSC)

HPSC 300 (3) Independent Studies: History and Philosophy of Science

HPSC 500 (3) Interdisciplinary Seminar: History & Philosophy of Science

Philosophy (PHIL)

PHIL 210 (3) Introduction to Deductive Logic 1

PHIL 221 (3) Introduction to History and Philosophy of Science 2

PHIL 306 (3) Philosophy of Mind

PHIL 310 (3) Intermediate Logic

PHIL 311 (3) Philosophy of Mathematics

PHIL 340 (3) Philosophy of the Social Sciences 1

PHIL 341 (3) Philosophy of Science 1

PHIL 350 (3) History and Philosophy of Ancient Science

PHIL 411 (3) Topics in Philosophy of Logic and Mathematics

PHIL 440 (3) Philosophy of Social Sciences 2

PHIL 441 (3) Philosophy of Science 2

PHIL 453 (3) Ancient Metaphysics and Natural Philosophy

Religious Studies (RELG)

RELG 340 (3) Religion and the Sciences

Sociology (SOCI)

SOCI 338 (3) Introduction to Biomedical Knowledge

History of Science

6-12 credits of courses focused on the History of Science with no more than 6 credits at the 200 level chosen from the following:

Anthropology (ANTH)

ANTH 359 (3) History of Archaeological Theory

Biology (BIOL)

BIOL 210 (3) Perspectives of Science

History (HIST)

HIST 249 (3) Health and the Healer in Western History

HIST 319 (3) The Scientific Revolution

HIST 335 (3) Science and Medicine in Canada

HIST 350 (3) Science and the Enlightenment

HIST 356 (3) Medicine in the Medieval West

HIST 410 (3) Topics in History of Science

HIST 452	(3)	Topics in Pre-Modern Medicine
HIST 457	(3)	Topics in Medical History
HIST 558	(3)	Modern Medicine: Seminar
HIST 559	(3)	Modern Medicine: Research
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

History and Philosophy of Science (HPSC)

HPSC 300	(3)	Independent Studies: History and Philosophy of Science
HPSC 500	(3)	Interdisciplinary Seminar: History & Philosophy of Science

Islamic Studies (ISLA)

ISLA 345	(3)	Science and Civilization in Islam
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Mathematics (MATH)

MATH 338	(3)	History and Philosophy of Mathematics
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Psychology (PSYC)

Modern Psychology in Historical Perspective (HIST 457) Tj1 0 0 emat 0 uy in Historical P7RllLA i6.91j/u7 33 T70 and

ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English
ENGL 553	(3)	Old English Literature

* Note: When content relates to Medieval Studies.

History and Classical Studies

CLAS 419	(3)	Advanced Latin: Post-Classical
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 356	(3)	Medicine in the Medieval West
HIST 358	(3)	China's Middle Empires
HIST 380	(3)	The Medieval Mediterranean
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

Islamic Studies

ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 516	(3)	Medieval Islam, 13th-15th Century

Jewish Studies

JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 562	(3)	Medieval Islamic and Jewish Philosophy

Languages, Literatures, and Cultures

ITAL 355	(3)	Dante and the Middle Ages
ITAL 356	(3)	Medieval Discourses on Love
ITAL 465	(3)	Religious Identities in Italy

Langue et littérature françaises

FREN 455*	(3)	La littérature médiévale 1
FREN 456*	(3)	La littérature médiévale 2

** Note: Course taught and all coursework done in French.

Philosophy

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy

Religious Studies

RELG 322	(3)	Church and Empire to 1300
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Le Québec et le Canada

ENGL 381	(3)	A Film-Maker 1
ENGL 382	(3)	International Cinema 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 393	(3)	Canadian Cinema
ENGL 450	(3)	Film Aesthetics
ENGL 451	(3)	A Period in Cinema
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 479	(3)	Philosophy of Film
ENGL 480	(3)	Studies in History of Film 1
ENGL 481	(3)	A Film-Maker 2
ENGL 482	(3)	International Cinema 2
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 492	(3)	Image and Text
ENGL 585	(3)	Cultural Studies: Film
FILM 499	(3)	Internship: World Cinemas
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
GERM 357	(3)	German Culture in European Context
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
GERM 373	(3)	Weimar German Cinema
HISP 340	(3)	Latin American Cinema
HISP 341	(3)	Spanish Cinema
HIST 435	(3)	Topics in South Asian History
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film
LLCU 300	(3)	Cinema and the Visual
MUHL 330	(3)	Music and Film
PLAI 500	(3)	Advanced Interdisciplinary Humanities Seminar
RUSS 213	(3)	Introduction to Soviet Film
RUSS 395	(3)	Soviet Cinema: Art and Politics

4.10.22 International Development

McGill's Institute for the Study of International Development (ISID), its programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.23: International Development](#).

International Development programs leading to a B.A. & Sc. degree are offered in the following areas:

- African Studies
- International Development Studies
- Latin-American and Caribbean Studies

4.10.22.1 Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
		Geography of De

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

4.10.22.3 Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)

The B.A.; Minor Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, and key development-related themes.

At least 9 of the 18 credits must be at the 300 level or above.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (9 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development

Complementary Courses (9 credits)

Thematic

9 credits from the following:

Agriculture

Global Issues on De3)3)

Economics of International

Anthropology

ANTH p02	(3)	Socio-Cultural Anthropology
ANTH p06	(3)	Environment and Culture
ANTH p09	(3)	Anthropology of Religion
ANTH p12	(3)	Anthropology of De
ANTH p22	(3)	Le
ANTH p27	(3)	Medical Anthropology

ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America
ANTH 339	(3)	Ecological Anthropology
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440 (3) First Nations and Inuit Literature and Media

Geography

GEOG 210 (3) Global Places and Peoples
 GEOG 216 (3) Geography of the World Economy
 GEOG 221 (3) Environment and Health
 GEOG 302 (3) Environmental Management 1
 GEOG 303 (3) Health Geography
 GEOG 310 (3) Development and Livelihoods
 GEOG 325 (3) New Master-Planned Cities
 GEOG 403 (3) Global Health and Environmental Change
 GEOG 408 (3) Geography of Development
 GEOG 410 (3) Geography of Underdevelopment: Current Problems
 GEOG 425 (3) Southeast Asia Urban Field Studies
 GEOG 510 (3) Humid Tropical Environments

History

Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197 (3) FYS: Race in Latin America
 HIST 200 (3) Introduction to African History
 HIST 201 (3) Modern African History
 HIST 208 (3) Introduction to East Asian History
 HIST 209 (3) Introduction to South Asian History
 HIST 213 (3) World History, 600-2000
 HIST 218 (3) Modern East Asian History
 HIST 223 (3) Indigenous Peoples and Empires
 HIST 309 (3) History of Latin America to 1825
 HIST 317 (3) Themes in Indian Ocean World History
 HIST 333 (3) Indigenous Peoples and French
 HIST 338 (3) Twentieth-Century China
 HIST 339 (3) Arab-Israeli Conflict
 HIST 340 (3) History of Modern Egypt
 HIST 341 (3) Themes in South Asian History
 HIST 360 (3) Latin America since 1825
 HIST 361 (3) Topics in Canadian Regional History
 HIST 363 (3) Canada 1870-1914
 HIST 366 (3) Themes in Latin American History
 HIST 382 (3) History of South Africa
 HIST 408 (3) Colonialism and Native Peoples
 HIST 409 (3) Topics in Latin American History
 HIST 419 (3) Central America

HIST 528 (3) Indian Ocean World Slave Trade

International Development Studies

INTD 350 (3) Culture and Development

INTD 352 (3) Disasters and Development

INTD 354 (3) Civil Society and Development

MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights

ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic

12-15 credits from the following:

Agriculture

Global Issues on Development, Food and Internati2Fr1popmentelopment, F

ANTH 500 (3) Chinese Diversity and Diaspora
ANTH 512 (3) Political Ecology

Business Administration

BUSA 433* (3) Topics in International Business 1

* When topic is relevant to IDS.

Canadian Studies

CANS 315 (3) Indigenous Art and Culture

East Asian Studies

EAST 211 (3) Introduction: East Asian Culture: China
(3) Introduction: East Asian Culture: Korea

History

Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 213	(3)	World History, 600-2000
HIST 218	(3)	Modern East Asian History
HIST 223	(3)	Indigenous Peoples and Empires
HIST 309	(3)	History of Latin America to 1825
HIST 317	(3)	Themes in Indian Ocean World History
HIST 333	(3)	Indigenous Peoples and French
HIST 338	(3)	Twentieth-Century China
HIST 339	(3)	Arab-Israeli Conflict
HIST 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam

ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa

POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics Politics in Japan and South K

3-6 credits from the following: *

Anthropology

ANTH 358 (3) The Process of Anthropological Research

Economics

ECON 227D1 (3) Economic Statistics

ECON 227D2 (3) Economic Statistics

International Development Studies

INTD 356 (3) Quantitative Methods for Development

INTD 358 (3) Ethnographic Approaches to Development

Political Science

POLI 210 (3) Political Science Research Methods

POLI 461 (3) Advanced Quantitative Political Science

Sociology

SOCI 350 (3) Statistics in Social Research

SOCI 461 (3) Quantitative Data Analysis

SOCI 477 (3) Qualitative Methods in Sociology

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

4.10.22.5 Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)

The B.A.; Joint Honours - International Development Studies component focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable).

Honours students must refer to a list of (4-hour student) Tjm(0 1 23) in an) must dis 0 ccord the Ho5.46 286.065 371.0 Honours student 0 0 1 r9.961 335.4

INTD 200	(3)	Introduction to International Development
INTD 498	(3)	Honours Seminar in International Development

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic (12 credits)

12 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 329	(3)	Modern Chinese Society and Change
ANTH 337	(3)	Mediterranean Society and Culture
ANTH 338	(3)	Native Peoples of North America

ANTH 339	(3)	Ecological Anthropology
ANTH 340	(3)	Middle Eastern Society and Culture
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 342	(3)	Gender, Inequality and the State
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society North American Native Peoples

GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

Note: Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America Introduction to
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INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 497	(3)	Advanced Topics in International Development
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Islamic Studies

ISLA 200	(3)	Islamic Civilization
	(3)	Muslim Societies

Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding

SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods (6 credits)

6 credits from the following:*j1 /dnallo

HISP 244*	(3)	Survey of Latin American Literature and Culture 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
POLI 319	(3)	Politics of Latin America

Complementary Courses (18 credits)

18 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements:

- 1) Courses from at least two disciplines or departments must be included.
- 2) At least 6 of the 18 credits must be at the 300 level or above.
- 3) No more than 6 credits in Spanish or Portuguese language (HISP 210D1/D2, HISP 218, HISP 219, HISP 220D1/D2, HISP 222) shall count for the Major concentration.

Complementary Course List

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology and Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 428	(3)	Saints and Mediation in Latin America

Canadian Studies

CANS 412	(3)	Canada and Americas Seminar
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Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

English

* when given under a topic related to Latin American & Caribbean Studies

ENGL 431	(3)	Studies in Drama
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Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Pan

4.10.22.7 Bachelor of Arts (B.A.) - Minor Concentration Latin American & Caribbean Studies (18 credits)

The B.A.; Minor Concentration in Latin American and Caribbean Studies focuses on a broad, interdisciplinary view of key aspects of Latin America and the Caribbean. The program may be expanded to the Major Concentration in Latin American and Caribbean Studies.

Required Course (3 credits)

LACS 497 (3) Research Seminar: Latin America and the Caribbean

Complementary Courses (15 credits)

3-6 credits to be chosen from:

HISP 210D1 (3) Spanish Language: Beginners
HISP 210D2 (3) Spanish Language: Beginners
HISP 218 (6) Spanish Language Intensive - Elementary
HISP 219 (6) Spanish Language Intensive - Intermediate
HISP 220D1 (3) Spanish Language: Intermediate
HISP 220D2 (3) Spanish Language: Intermediate
HISP 243 (3) Survey of Latin American Literature and Culture 1
HISP 244 (3) Survey of Latin American Literature and Culture 2

3-6 credits to be chosen from:

HIST 309 (3) History of Latin America to 1825
HIST 360 (3) Latin America since 1825
LACS 480 (3) Latin American and Caribbean Studies Reading Course
LACS 499 (3) Internship: Latin America and Caribbean Studies
Politics of Latin

ECON 314 (3) Economic Development 2

English

* when given under a topic related to Latin American & Caribbean Studies

ENGL 431 (3) Studies in Drama

Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310 (3) Development and Livelihoods
GEOG 404* (3) Environmental Management 2
GEOG 408 (3) Geography of Development
GEOG 410 (3) Geography of Underdevelopment: Current Problems
GEOG 498 (3) Humans in Tropical Environments
GEOG 510 (3) Humid Tropical Environments

Hispanic Studies

HISP 219 (6) Spanish Language Intensive - Intermediate
HISP 220D1 (3) Spanish Language: Intermediate
HISP 220D2 (3) Spanish Language: Intermediate
HISP 225 (3) Hispanic Civilization 1
HISP 226 (3) Hispanic Civilization 2
HISP 301 (3) Hispanic Literature and Culture in English 1
HISP 302 (3) Hispanic Literature and Culture in English 2
HISP 320 (3) Contemporary Brazilian Literature and Film
HISP 328 (3) Literature of Ideas: Latin America
HISP 332 (3) Latin American Literature of 19th Century
HISP 333 (3) Theatre, Performance and Politics in Latin America
HISP 352 (3) Latin American Novel
HISP 356 (3) Latin American Short Story
HISP 358 (3) Gender and Textualities
HISP 437 (3) Colonial / Postcolonial Latin America
HISP 439 (3) Topics: Latin American Literature
HISP 453 (3) 20th Century Latin American Poetry
HISP 505 (3) Seminar in Hispanic Studies 01

History

HIST 197 (3) FYS: Race in Latin America
HIST 223 (3) Indigenous Peoples and Empires
HIST 366 (3) Themes in Latin American History
HIST 409 (3) Topics in Latin American History
HIST 419 (3) Central America
HIST 580D1 (3) European and Native-American Encounters

HIST 580D2 (3) European and Native-American Encounters

Political Science

POLI 227 (3) Developing Areas/Introduction

POLI 473 (3) Democracy and the Market

4.10.23 Islamic Studies (ISLA)

Please see [section 4.10.36: World Islamic and Middle East Studies \(ISLA\)](#) for more information.

4.10.24 Jewish Studies (JWST)

The Department of Jewish Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.25: Jewish Studies \(JWST\)](#).

4.10.24.1 Bachelor of Arts (B.A.) - Minor Concentration Jewish Studies (18 credits)

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.

This program may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature

History of Hebrew Bible Texts (ISLA)

JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism

Language and Literature - Yiddish

JWST 206	(3)	Introduction to Yiddish Literature
JWST 281	(3)	Introductory Yiddish 1
JWST 282	(3)	Introductory Yiddish 2
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 355	(3)	The Yiddish Canon
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(3)	Tutorial in Yiddish Literature
JWST 588	(3)	Tutorial in Yiddish Literature

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
	(3)	The Shtetl: 1500-1897

JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 316	(3)	Social and Ethical Issues Jewish Law 1
JWST 319	(3)	Judaism and the Occult
JWST 333	(3)	The Hebrew Liturgy
JWST 345	(3)	Introduction to Rabbinic Literature
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 576	(3)	Jewish Family Law

Other Department Courses - History

Many of the courses in Jewish Studies are related to other departments, e.g 92 358.848 T58.848 T58.848 T58.2m(Man)4Fourses in Je

Jewish History

6 credits (minimum) in the history of Jewish civilization to be chosen from:

HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

6 credits reflecting an advanced level of competence in either Hebrew or Yiddish chosen from the following:

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Israeli Popular Culture

Or, any course at the 400 level except for JWST 404 and JWST 405.

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 538	(3)	Early Rabbinic Parshanut 1

JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
3)	(3)	The Holocaust

(3) The American Jewish Community

JWST 367

(3)

Hebrew through Israeli Cinema
A Taste of Hebre

JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

4.10.24.3 Bachelor of Arts (B.A.) - Joint Honours Component Jewish Studies (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list

JWST 333	(3)	The Hebrew Liturgy
JWST 510	(3)	Jewish Bible Interpretation 1
JWST 511	(3)	Jewish Bible Interpretation 2
JWST 520	(3)	Bible Interpretation in Antiquity
JWST 538	(3)	Early Rabbinic Parshanut 1
JWST 541	(3)	Medieval Ashkenazi Parshanut
JWST 542	(3)	Abraham Ibn Ezra as Parshan
JWST 543	(3)	Maimonides as Parshan
JWST 546	(3)	Innovative Medieval Parshanut
JWST 548	(3)	Medieval Parshanut
JWST 554	(3)	Modern Jewish Biblical Scholarship
JWST 571	(3)	Biblical Literature
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History

HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
	(3)	Denominations in North American Judaism

JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel Israeli Literature in

JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	(3)	Literary Response to Loss/Separation
JWST 445	(3)	The Poetry of Nationalism
JWST 558	(3)	Topics: Modern Jewish Thought
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

Rabbinic Studies

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
	(3)	Jewish Studies 3: 1000 - 2000

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History

4.10.25 Languages, Literatures, and Cultures (LLCU)

The Department of Languages, Literatures, and Cultures, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.26: Languages, Literatures, and Cultures \(LLCU\)](#).

4.10.25.1 Bachelor of Arts (B.A.) - Minor Concentration European Literature and Culture (18 credits)

The Minor Concentration in European Literature and Culture provides students with a broad foundation for understanding the development and interconnectedness of European culture, and its relevance for the comprehension of today's world through the study of literature and the arts from the Middle Ages to modern times. Knowledge of a language other than English is not required to complete the program.

Required Course (3 credits)

LLCU 210	(3)	Introduction to European Literature and Culture
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Complementary Courses (15 credits)

9-15 credits selected from the list below. At least 6 credits should be at the 300-level or above.

Students with an advanced knowledge of German, Italian, Russian, or Spanish can count GERM, HISP, ITAL, and RUSS literature courses taught in those languages toward the Minor Concentration. No more than 6 credits in any given area (LLCU, GERM, HISP, ITAL, and RUSS) shall count toward the Minor Concentration (not including LLCU 210).

GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 302	(3)	Hispanic Literature and Culture in English 2
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 385	(3)	Italian Futurist Movement
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age

ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film
LLCU 201	(3)	Literature and Culture Topics
LLCU 220	(3)	Introduction to Literary Analysis
LLCU 230	(3)	Environmental Imaginations
LLCU 279	()	Introduction to Film History
LLCU 300	(3)	Cinema and the Visual
LLCU 301	(3)	Topics in Culture and Thought
RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire

0-6 credits in literature courses offered by Classical Studies (CLAS), English (ENGL), and French (FREN) selected from the following list:

CLAS 203	(3)	Greek Mythology
CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society
CLAS 306	(3)	Classics in Modern Media
CLAS 336	(3)	Modern Greek Literature
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 314	(3)	20th Century Drama
	(3)	English Novel: 19th Century 1

ENGL 356	(3)	Middle English
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 456	(3)	Middle English
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine

4.10.25.2 Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)

The Minor Concentration in German Language is designed to allow students to achieve linguistic proficiency in German and to introduce students to some of the major aspects of German culture.

This program may be expanded to the Major Concentration German Studies.

Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill 98or through McGillw studen(gif(cle 2)Tj1ers'21.27.9867.5 416.932 440B9aB.354 401.7 Tm0 0 1 221.(Bic68. 034G8s32 440B9aB.37521.(Bic68. els a165of34G8s32 4

GERM 335	(3)	Science and Literature
GERM 336	(3)	German Language, Media and Culture
GERM 337	(3)	Literature and Revolution
GERM 340	(3)	Romanticism
GERM 344	(3)	Realism
GERM 348	(3)	Nature and Eco-poetics
GERM 350	(3)	Modernism and the Avant-Garde
GERM 351	(3)	Berlin
GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought
GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture
GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02
GERM 401	(3)	Advanced Topics in German Literature and Culture

Bachelor of Arts (B.A.) - Minor Concentration Hispanic Studies (18 credits)

HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2

Complementary Courses (18 credits)

18 credits selected from three Italian course lists as follows:

Group

ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

4.10.25.5 Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 250	(3)	The Central European Novel
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 350	(3)	Central European Film
RUSS 400	(3)	Advanced Russian Language 1

RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

* RUSS 215 is not open to students who have taken RUSS 210 and RUSS 211.

** RUSS 316 is not open to students who have tak

RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy

GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 373	(3)	Weimar German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought
GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture
GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02
GERM 401	(3)	Advanced Topics in German Literature and Culture

4.10.25.8 Bachelor of Arts (B.A.) - Major Concentration German Studies (36 credits)

The Major Concentration in German Studies provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the major concentration and normally courses towards the major concentration will be taught in German. Courses will include the study of major works of literature, philosophy, film, theory, and visual art that have made a defining impact on German and European culture. Students will acquire the skills of critical reading and viewing that allow them to interpret complex works of art and evaluate their social and cultural significance.

Complementary Courses (36 credits)

6 credits must be in pre-20th century literature and culture.

A minimum of 9 credits of literature, culture, and film courses taught in German.

A maximum of 6 credits of LLCU courses, with prior departmental approval.

Language Courses

GERM 260	(3)	Introduction to German Literature 2
GERM 326	(3)	Topics: German Language and Culture German

HISP 357	(3)	Latin American Digital Literature and Culture
HISP 358	(3)	Gender and Textualities
HISP 425	(3)	Topics in Hispanic and Lusophone Visual Cultures
HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 454	(3)	Major Figures: Spanish Literature and Culture
HISP 455	(3)	Major Figures: Latin American Literature and Culture
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1800 Literature

At least 6 credits from:

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 451	(3)	Don Quixote
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

Note: No more than 12 credits in courses taught in English shall count towards the Major.

4.10.25.10 Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Italian Cultural Studies
ITAL 310	(3)	The Invention of Italian Literature
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 345	(3)	Romanticism in Italy
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 368	(3)	Literature of the Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 376	(3)	Italian Epic Poetry
ITAL 380	(3)	Italian Realisms
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement

ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

4.10.25.11 Bachelor of Arts (B.A.) - Major Concentration Russian (36 credits)

The Major Concentration in Russian gives students a foundation in the language, literature, and culture of Russia from the 19th century to the present. It incorporates a balance of instruction in the Russian language, the opportunity to read selected texts in the original language, and to explore Russian language and culture through translated texts.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Complementary Courses (36 credits)

36 credits selected from the following specifications:

Group A: Russian Language (18 credits)

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
		Advanced Russian Language ry R48tyaryx

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
	(3)	Topics in German Thought

HISP 244 (3) Survey of Latin American Literature and Culture 2

400-Level

At least 6 credits from the 400-level courses below:

HISP 432 (3) Literature - Discovery and Exploration Spain New World
Colonial / Postcolonial Latin

ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Italian Cultural Studies
ITAL 307	(3)	Topics in Italian Culture
ITAL 310	(3)	The Invention of Italian Literature
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 356	(3)	Medieval Discourses on Love

ARTH 325	(3)	Visual Culture Renaissance Venice
CLAS 302	(3)	Roman Literature and Society
CLAS 404	(3)	Classical Tradition
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
HIST 345	(3)	History of Italian Renaissance
HIST 380	(3)	The Medieval Mediterranean
HIST 398	(3)	Topics in Italian History
HIST 401	(3)	Topics: Medieval Culture and Society
MUHL 387	(3)	Opera from Mozart to Puccini

4.10.25.15 Bachelor of Arts (B.A.) - Joint Honours Component Russian (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students must consult with advisers in the respective departments for approval of their course selection.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

The Honours thesis course, RUSS 490, is usually completed in the student's final year and is on a topic in Russian literature or culture agreed upon in consultation with the student's thesis advisor.* It is to be written independently from the thesis that is required by the second program in which the student is pursuing their Joint Honours degree

*Note: Students must submit their Russian thesis project proposals to the Russian Studies departmental adviser by March 15th or November 15th of the preceding term for independent research courses.

Required Course (3 credits)

RUSS 490	(3)	Honours Seminar 01
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Complementary Courses (33 credits)

33 credits selected from the following specifications:

Group A: Russian Language

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1

RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

*RUSS 215 is not open to students who have taken RUSS 210 or RUSS 211.

**RUSS 316 is not open to students who have taken RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B

6-9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore
RUSS 250	(3)	The Central European Novel

Group C

6-9 credits selected from the following courses or their equivalent

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (18 credits)

18 credits in Linguistics (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

4.10.26.3 Bachelor of Arts (B.A.) - Joint Honours Component Linguistics (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Joint Honours Thesis, LING 481D1/D2. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (21 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 481D1	(1.5)	Joint Honours Thesis
LING 481D2	(1.5)	Joint Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (15 credits)

15 credits in Linguistics (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

4.10.27 Mathematics and Statistics (MATH)

The Department of Mathematics and Statistics, the discipline, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.22: Mathematics and Statistics \(MATH\)](#).

4.10.27.1 Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System. Students planning on taking the Major Concentration Mathematics and the Minor Concentration Mathematics as part of Multi-track option C should select the Supplementary Minor Concentration in Mathematics in place of this Minor concentration.

Under option C, it is not possible to combine the Minor Concentration Mathematics and the Minor Concentration Statistics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

MATH 340	(3)	Discrete Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 407	(3)	Dynamic Programming
MATH 417	(3)	Linear Optimization

4.10.27.2 Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (15 credits)

* Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222, MATH 223 and MATH 323 must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the Major Concentration Mathematics).

MATH 222*	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Applied Regression

Complementary Courses (3 credits)

3 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 317	(3)	Numerical Analysis
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 558	(0)	Design of Experiments

4.10.27.3 Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involv

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project
MATH 417	(3)	Linear Optimization
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

4.10.27.4 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 222	(3)	Calculus 3

Required Courses (9 credits)

MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2

Complementary Courses (27 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

PHIL 434	(3)	Metaethics
PHIL 442	(3)	Topics in Feminist Theory

Group B

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic

PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

4.10.28.2 Bachelor of Arts (B.A.) - Major Concentration Philosophy (36 credits)

Required Course (3 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
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Complementary Courses (33 credits)

33 credits, of which no more than 9 may be at the 200 level and at least 9 must be at the 400 or 500 level, distributed as follows:

18 credits from Groups A, B, C, D, E, and F:

3 credits from Group A

3 credits from Group B

6 credits, two courses from either Group C or Group D

3 credits from Group E

3 credits from Group F

15 additional credits from Groups A, B, C, D, E or F or from other Philosophy (PHIL) courses. Only one of PHIL 200 or PHIL 201 may be included in the program.

Group A

3 credits from:

PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 370	(3)	Problems in Analytic Philosophy
PHIL 410	(3)	Advanced Topics in Logic 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group B

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group C

6 credits (two courses) from Group C OR Group D:

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group D

6 credits (two courses) from Group C OR Group D:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

Group E

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1
PHIL 242	(3)	Introduction to Feminist Theory

Group F

3 credits from:

PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
PHIL 434	(3)	Metaethics
PHIL 442	(3)	Topics in Feminist Theory

4.10.28.3 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Cour

PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

9 credits of Philosophy (PHIL) at the 400 and 500 level (not including the Joint Honours tutorial), at least 3 credits of which must be at the 500 level.

Joint Honours Tutorial with Thesis

3 credits of Joint Honours tutorial with thesis, which can take either of two forms: a 6-credit interdisciplinary thesis, or a 3-credit thesis in Philosophy, i.e., PHIL 498 below.

PHIL 498	(3)	Tutorial 05
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4.10.29 Physics (PHYS)

The Department of Physics, the discipline, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.30: Physics \(PHYS\)](#).

4.10.29.1 Bachelor of Science (B.Sc.) - Minor Physics (18 credits)

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

PHYS 258 (3) Experimental Methods 2

One of:

PHYS 224 (3) Physics of Music
 PHYS 228 (3) Energy and the Environment
 PHYS 260 (3) Modern Physics and Relativity
 PHYS 320 (3) Introductory Astrophysics
 PHYS 346 (3) Majors Quantum Physics

One of:

PHYS 340 (3) Majors Electricity and Magnetism
 PHYS 350 (3) Honours Electricity and Magnetism

4.10.29.2 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Physics (36 credits)

The Major Concentration Physics, which is restricted to students in the B.A. & Sc. or B.Sc./B.Ed., is a planned sequence of courses designed to permit a degree of specialization in this discipline. This program is insufficient to prepare a student for professional or graduate work in physics; students interested in pursuing a career in physics are advised to take the appropriate B.Sc. program in physics.

Required Courses* (30 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by courses from the Complementary Course List.

MATH 222 (3) Calculus 3
 MATH 223 (3) Linear Algebra
 MATH 314 (3) Advanced Calculus
 MATH 315 (3) Ordinary Differential Equations
 PHYS 230 (3) Dynamics of Simple Systems
 PHYS 232 (3) Heat and Waves
 PHYS 257 (3) Experimental Methods 1
 PHYS 333 (3) Thermal and Statistical Physics
 PHYS 340 (3) Majors Electricity and Magnetism
 PHYS 346 (3) Majors Quantum Physics

Complementary Courses (6 credits)

6 credits selected from:

PHYS 224 (3) Physics of Music
 PHYS 228 (3) Energy and the Environment
 PHYS 241 (3) Signal Processing
 PHYS 258 (3) Experimental Methods 2
 PHYS 260 (3) Modern Physics and Relativity
 PHYS 320 (3) Introductory Astrophysics
 PHYS 534 (3) Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa

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POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

4.10.30.2 Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, and Political Theory) with the following specifications.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits, provided courses are taken in both Developed Areas and Developing Areas.

No more than 12 of the 36 credits may be at the 200 level. No more than 3 credits at the 200 level may be in any giv

POLI 342	(3)	Canadian Foreign Policy
POLI 348	(3)	Gender and Canadian Politics
POLI 371	(3)	Challenge of Canadian Federalism
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 378	(3)	The Canadian Judicial Process
POLI 379	(3)	Topics in Canadian Politics
POLI 410	(3)	Canadian Political Parties
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 417	(3)	Health Care in Canada

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Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

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POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 232	(3)	Modern Political Thought
POLI 333	(3)	Western Political Theory 1
POLI 334	(3)	Western Political Theory 2
POLI 362	(3)	Political Theory and International Relations
POLI 363	(3)	Contemporary Political Theory
POLI 364	(3)	Radical Political Thought
POLI 365	(3)	Democratic Theory
POLI 366	(3)	Topics in Political Theory 1
POLI 367	(3)	Liberal Political Theory
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

4.10.30.3 Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours Program components from two Arts disciplines.

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

To be awarded First Class Joint Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide", which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Joint Honours at graduation, students must be registered in the Joint Honours program in their final year. At graduation, students' Joint Honours standing will be determined by their overall record in the Joint Honours program. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Students may enter the Joint Honours program in U1.

Required Course (3 credits)

POLI 210* (3) Political Science Research Methods

* The POLI 210 requirement is waived for students admitted to McGill BEFORE Fall 2017. The POLI 210 requirement is waiv

POLI 427	(3)	Selected Topics: Canadian Politics
POLI 436	(3)	Aboriginal Rights in the Canadian Constitution
POLI 478	(3)	The Canadian Constitution
POLI 521	(3)	Seminar: Canadian Politics and Government

Comparative Politics - Developed Areas

GEOG 420*	(3)	Memory, Place, and Power
POLI 212	(3)	Government and Politics - Developed World
POLI 315	(3)	Approaches to Political Economy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 344	(3)	Foreign Policy: Europe
POLI 345	(3)	International Organizations
POLI 346	(3)	American Foreign Policy
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 351	(3)	The Causes of Major Wars
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
		Social Dev

Bachelor of Arts (B.A.) - Minor Concentration Psyc

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 305**	(3)	Statistics for Experimental Design

** Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above apart from PSYC 305 in their U1 year to be eligible for admission. Students who have been ex

PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication and Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 475	(3)	Neuroscience of Social Psychology
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression and Anxiety
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology

PSYC 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

4.10.31.4 Bachelor of Arts (B.A.) - Joint Honours Component Psychology (36 credits)

Students who wish to study at the Honours level in two ep10 1 215.41 455)

U1 Required Courses (18 credits)

* Advising note for PSYC 204: Students who have completed in CEGEP either Mathematics 201-307 or 201-337 or equivalent, or the combination of Quantitativ

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 334	(3)	Theology of History
RELG 348	(3)	Classical Hinduism
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism

Themes in Religion, Culture, and Globalization

9 credits from:

ISLA 310	(3)	Women in Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 326	(3)	Christians in the Roman World
		Conversations Across World Religions

RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

4.10.32.2 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Asian Religions (36 credits)

** This option is no longer offered. Please contact the School of Religious Studies about the Joint Honours in Religious Studies.**

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Asian Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3-6 credits from Core Courses on Religions of Asia

3 credits from Introductory Courses on Western Religions

3 credits from Advanced Theory Courses

9-12 credits from Themes in Religion, Culture and Globalization

15 credits from Religions of Asia

3-6 credits from Core Courses on Religions of Asia:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia

3 credits from Introductory Courses on Western Religions:

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth

3 credits from Advanced Theory Courses:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

9-12 credits from Themes in Religion, Culture, and Globalization:

RELG 207	(3)	Introduction to the Study of Religions
RELG 256	(3)	Women in Judaism and Islam

RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 309	(3)	World Religions and Cultures They Create
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 353	(3)	Gandhi: His Life and Thought
RELG 355	(3)	Religion and the Arts 2
RELG 358	(3)	Religion and Cinema in India
RELG 361	(3)	Religious Behaviour
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	(3)	Religious Controversies
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 440	(3)	Global Islam
RELG 444	(3)	Indian Ocean Religious Networks
RELG 479	(3)	Christianity in Global Perspective
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

15 credits from Religions of Asia:

RELG 254	(3)	Introduction to Yoga Traditions
RELG 337	(3)	Themes in Buddhist Studies
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 342	(3)	Theravada Buddhist Literature
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions

RELG 356	(3)	Gender and Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 442	(3)	Pure Land Buddhism
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 553	(3)	Religions of South India 1
RELG 554	(3)	Religions of South Asia
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

Courses Offered by Other Units

Up to 6 credits of courses from other units may be chosen by Joint Honours students with prior approval from the Religious Studies Honours program adviser.

4.10.32.3 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Western Religions (36 credits)

** This option is no longer offered. Please contact the School of Religious Studies about the Joint Honours in Religious Studies.**

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Western Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3-6 credits from Core Courses on Western Religions

3 credits from Introductory Courses on Religions of Asia

3 credits from Advanced Theory Courses

9-12 credits from Themes in Religion, Culture, and Globalization

15 credits from Western Religions

3 - 6 credits from Core Courses on Western Religions:

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth

3 credits from Introductory Courses on Religions of Asia:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 387	(3)	Introduction to Jainism

3 credits from Advanced Theory Courses:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

9 - 12 credits from Themes in Religion, Culture, and Globalization:

RELG 207	(3)	Introduction to the Study of Religions
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 309	(3)	World Religions and Cultures They Create
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 347	(3)	Topics in Religion and the Arts
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	(0)	
RELG 479	(3)	Christianity in Global Perspective

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RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

15 credits from Western Religions:

RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 308	(3)	Ancient Bible Translations
RELG 310	(3)	Canadian Church History
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 324	()	
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History

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4.10.33 Social Studies of Medicine (SSMD)

Social Studies of Medicine, the program, and specific courses are described in [F](#)

SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Sociology of the Media
SOCI 322	(3)	Sociology of Literature
SOCI 325	(3)	Sociology of Science
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 503	(3)	Surveillance in Modern Society
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control

Politics and Social Change

SOCI 212	(3)	International Migration
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 251	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 327	(3)	Political Sociology
SOCI 376	(3)	Topics in Sociology
SOCI 388	(3)	Crime

4.10.34.2 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

SOCI 341	(3)	Current Problems in Sociology 02
SOCI 342	(3)	Independent Study 1
SOCI 343	(3)	Independent Study 2
SOCI 441	(3)	Current Problems in Sociology 03
SOCI 442	(3)	Independent Reading and Research 01
SOCI 443	(3)	Independent Reading and Research 02

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization

SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Sociology of the Media
SOCI 322	(3)	Sociology of Literature
SOCI 325	(3)	Sociology of Science
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
SOCI 460	(3)	Responses to Social Problems
SOCI 488	(3)	Punishment and Prisons
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 495	(3)	Social Problems and Conflicts
SOCI 503	(3)	Surveillance in Modern Society
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 535	(3)	Sociology of the Family
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 571	(3)	Deviance and Social Control Immigration Control and

SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 511	(3)	Movements/Collective Action
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
	(3)	Gender and Globalization

4.10.34.3 Bachelor of Arts (B.A.) - Joint Honours Component Sociology (36 credits)

The Joint Honours Component Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of a Joint Honours program is an asset when applying to graduate or profession schools

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students may register for Joint Honours at the beginning of their second year (U2).

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 480	(3)	Honours Project

SOCA3OCI 322

Complementary Courses (18 credits)

18 credits of complementary sociology (SOCI) courses approved by the Departmental Honours Adviser.

500-Level Seminars:

Seminars at the 500 level are open to Honours/Joint Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours/Joint Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 219	(3)	Sociology of Culture
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 247	(3)	Family and Modern Society
SOCI 250	(3)	Social Problems
SOCI 305	(3)	Socialization
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 318	(3)	Sociology of the Media
SOCI 322	(3)	Sociology of Literature
SOCI 325	(3)	Sociology of Science

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification Sociology of

4.10.35.2 About Sustainability, Science and Society

This program is a partnership between the Department of Geography and the Bieler School of Environment and is administered through Geography.

4.10.35.3 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program in Sustainability, Science and Society (54 credits)

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrati

ECON 230	(6)	Microeconomic Theory
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVR 519	(3)	Global Environmental Politics
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 303	(3)	Health Geography
GEOG 316	(3)	Political Geography
GEOG 408	(3)	Geography of Development
		Geograph

GEOG 372	(3)	Running Water Environments
GEOG 403	(3)	Global Health and Environmental Change
GEOG 470	(3)	Wetlands
GEOG 530	(3)	Global Land and Water Resources
GEOG 555	(3)	Ecological Restoration
NRSC 333	(3)	Pollution and Bioremediation

Students who wish to explore the following topics in more depth may select the courses listed below:

- 1) Climate Change: ESYS 200, ESYS 300, ESYS 500, GEOG 523, ATOC 214, ATOC 215
- 2) Land Resources, Food, Forests: AGECE 430, AGECE 442, AGRI 435, BIOL 308, BIOL 310, ENVB 410, GEOG 523, GEOG 530
- 3) Water Resources: AGRI 435, NRSC 540, BREE 217, GEOG 322, GEOG 372, GEOG 470, GEOG 530
- 4) Biodiversity: BIOL 308, BIOL 310, BIOL 540, ENVB 410, ENVR 540, GEOG 555
- 5) Human Health: GEOG 221, GEOG 303, GEOG 403
- 6) Development: GEOG 408, GEOG 410, ANTH 212

4.10.35.4 Bachelor of Arts and Science (B.A. & Sc.) - Honours in Sustainability, Science and Society (60 credits)

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrative knowledge and skills required to effectively understand and address this challenge in its multiple dimensions-scientific-technological, socio-economic, political-institutional, ethical, and human behavioural - and to chart a transition to sustainability. It is built upon three pillars: 1) Science and Technology, to provide an in-depth understanding of the underpinnings of the problems of concern along these dimensions; 2) Economics, Policy, and Governance, to understand how we can make

ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
GEOG 203	(3)	Environmental Systems
GEOG 310	(3)	Development and Livelihoods
MGPO 440	(3)	Strategies for Sustainability

Complementary Courses (27 credits)

27 credits selected as follows:

3 credits of Statistics

3 credits of System Modelling tools

3 credits of Economics

18 credits selected from 3 areas

Statistics

3 credits of Statistics from the following:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
PSYC 204	(3)	Introduction to Psychological Statistics

System Modelling

3 credits of System Modelling tools from the following:

ESYS 301	(3)	Earth System Modelling
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation

Economics

3 credits of Economics from the following:

AGEC 333	(3)	Resource Economics
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics

18 additional credits of complementary courses chosen from three areas listed below:

Students must choose at least two courses from each area, and in total complete at least 9 credits at the 300 level or higher.

AREA 1: Methods: Observation, Analysis, Modelling, and Management

AGRI 435	(3)	Soil and Water Quality Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 544	(3)	Environmental Measurement and Modelling
ESYS 500	(3)	Earth System Applications
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 308	(3)	Remote Sensing for Earth Observation

GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 404	(3)	Environmental Management 2
GEOG 509	(3)	Qualitative Methods
GEOG 523	(3)	Global Ecosystems and Climate
URBP 506	(3)	Environmental Policy and Planning

AREA 2:

GEOG 382	(3)	Principles Earth Citizenship
MGPO 450	(3)	Ethics in Management
RELG 270	(3)	Religious Ethics and the Environment

AREA 3: Sustainability and Biophysical Processes

Note:

* Students select either BREE 217 or GEOG 322, but not both.

** Students select either BIOL 540 or ENVR 540, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 540**	(3)	Ecology of Species Invasions
BREE 217*	(3)	Hydrology and Water Resources
ENVB 410	(3)	Ecosystem Ecology
ENVR 540**	(3)	Ecology of Species Invasions
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 221	(3)	Environment and Health
GEOG 305	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 403	(3)	Global Health and Environmental Change
GEOG 470	(3)	Wetlands
GEOG 530	(3)	Global Land and Water Resources
GEOG 555	(3)	Ecological Restoration
NRSC 333	(3)	Pollution and Bioremediation

Students who wish to explore the following topics in more depth may select the courses listed below:

- 1) Climate Change: ESYS 200, ESYS 300, ESYS 500, GEOG 523, ATOC 214, ATOC 215
- 2) Land Resources, Food, Forests: AGEC 430, AGEC 442, AGRI 435, BIOL 308, BIOL 310, ENVB 410, GEOG 523, GEOG 530
- 3) Water Resources: AGRI 435, NRSC 540, BREE 217, GEOG 322, GEOG 372, GEOG 470, GEOG 530
- 4) Biodiversity: BIOL 308, BIOL 310, BIOL 540, ENVB 410, ENVR 540, GEOG 555
- 5) Human Health: GEOG 221, GEOG 303, GEOG 403
- 6) Development: GEOG 408, GEOG 410, ANTH 212

4.10.36 World Islamic and Middle East Studies (ISLA)

World Islamic and Middle East Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.24.2: World Islamic and Middle East Studies \(ISLA\)](#).

4.10.36.1 Bachelor of Arts (B.A.) - Minor Concentration Arabic Language (18 credits)

The Minor Concentration in Arabic Language provides students with comprehensive training in listening, speaking, reading, and writing in Arabic.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses**Revision, April 2021. Start of revision.**

18 credits of Arabic language (3 levels) from the list below.

In the case of Introductory Arabic (9 credits), the extra 3 credits will be counted as electives.

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 523D1	()	
ISLA 523D2	()	
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2
ISLA 526	(3)	Colloquial Arabic

Revision, April 2021. End of revision.**4.10.36.2 Bachelor of Arts (B.A.) - Minor Concentration Persian Language (18 credits)**

The Minor Concentration in Persian Language provides students with comprehensive training in listening, speaking, reading, and writing in Persian.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses**Revision, May 2021. Start of revision.**

18 credits of Persian language (3 levels) from the list below.

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Revision, May 2021. End of revision.**4.10.36.3 Bachelor of Arts (B.A.) - Minor Concentration Turkish Language (18 credits)**

The Minor Concentration in Turkish Language provides students with comprehensive training in listening, speaking, reading, and writing in Turkish.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses**Revision, April 2021. Start of revision.**

18 credits of Turkish language (3 levels) from the list below.

ISLA 232D1	(3)	Introductory Turkish
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ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Revision, April 2021. End of revision.

4.10.36.4 Bachelor of Arts (B.A.) - Minor Concentration Urdu Language (18 credits)

The Minor Concentration in Urdu Language provides students with comprehensive training in listening, speaking, reading, and writing in Urdu.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

ISLA 221D2	(4.5)	Introductory Arabic
ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi

Revision, May 2021. End of revision.

ISLA 300 Level and Higher

6 credits from:

ISLA 310	(3)	Women in Islam
ISLA 320	(3)	Art of Islam
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic

ISLA Courses

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 325	(3)	Introduction to Shi'i Islam

ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 499	(3)	World Islamic and Middle East Studies Internship
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
ANTH 340	(3)	Middle Eastern Society and Culture
HIST 240	(3)	Modern History of Islamic Movements
HIST 339	(3)	Arab-Israeli Conflict
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 366	(3)	History of Zionism

JWST 562	(3)	Medieval Islamic and Jewish Philosophy
PHIL 356	(3)	Early Medieval Philosophy
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
RELG 204	(3)	Judaism, Christianity and Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

4.10.36.6 Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (36 credits)

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21-24 credits (21 if Introductory Arabic has been chosen), of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits of 100-/200-level non-language ISLA courses;

6 credits of 300-level non-language ISLA courses;

6 credits of 400-/500-level non-language ISLA courses;

6-9 credits at any level, including more language courses, but no more than 6 credits overall at the 100/200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Languages (12-15 credits)

Arabic

Revision, April 2021. Start of revision.

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Revision, April 2021. End of revision.

Persian

Revision, May 2021. Start of revision.

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian

ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Revision, May 2021. End of revision.

Turkish

Revision, April 2021. Start of revision.

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Revision, April 2021. End of revision.

Urdu

Revision, April 2021. Start of revision.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Revision, April 2021. End of revision.

ISLA 100-/200-Level

3 credits from:

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies

ISLA 300-Level

6 credits from:

ISLA 310	(3)	Women in Islam
ISLA 320	(3)	Art of Islam
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism

ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

6 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
		Indo-Islamic Civilization: Media

3 credits of 400-/500-level non-language ISLA courses;

3-6 credits at any level, including more language courses, but no more than 6 credits overall at the 100/200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Languages (12-15 credits)

Arabic

Revision, April 2021. Start of revision.

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Revision, April 2021. End of revision.

Persian

Revision, May 2021. Start of revision.

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Revision, May 2021. End of revision.

Turkish

Revision, April 2021. Start of revision.

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Revision, April 2021. End of revision.

Urdu

as searching the library catalogue, finding course materials on reserve, and locating articles and other materials. Workshops on EndNote and Zotero can help you create in-text citations, notes, and reference lists.

Liaison librarians hold regular office hours and are available for consultation.

Lending Services for laptops, digital still and video cameras, digital audio recorders, and tripods are now handled by the Education Computer Lab & Audiovisual Loan Service.

Visit the McGill Library website (below) to learn more about library loans, hours and reserve readings.

Website: mcgill.ca/library

5.3.2 Education Undergraduate Society (EdUS)

The EdUS is the voice for undergraduate students within the Faculty, with its primary purpose being to serve and to inform the students. It also seeks to unify students through sponsorship of activities such as:

- career placement;
- student orientation;
- participation in teachers' conventions;
- library donations;
- the organization of the annual *Education Career Fair*.

Other activities include assigning lockers to students, selling merchandise at the EdUS office, coordinating the Graduation Ball, as well as fundraising and events throughout the academic year. Students are encouraged to participate and make their opinions known. The Society Office is located in Room B179 of the Education Building.

Telephone: 514-398-7048

Fax: 514-398-2476

Email: admin.edus@mail.mcgill.ca

Website: edusmcgill.com

Facebook: [www.facebook.com/185.s5bef01Tm\(edusmcgill.com\)Tj0G0e522487.601Tma81TmT38Tmlencouragedtofgninglock](https://www.facebook.com/185.s5bef01Tm(edusmcgill.com)Tj0G0e522487.601Tma81TmT38Tmlencouragedtofgninglock)

You can send in an equipment reservation request using the [Reservation Request Form](#), or visit the Lab in person or call 514-398-6954. Note that the online AV reservation form does not guarantee a reservation; please wait for an email confirmation of the reservation.

For information about our hours of operation, please consult mcgill.ca/education/technology (under “Education Computer Lab & Audiovisual Loan Service”).

ICS McGill Central Audiovisual Equipment Loan Services

Audiovisual equipment loan services are also available centrally through [ICS Audiovisual](#).

5.3.4 McGill Career Planning Service (CaPS)

Refer to [University Regulations and Resour](#)

- general academic information and advice on undergraduate program and degree requirements;
- course change;
- withdrawal;
- supplemental and deferred exams;
- rereads;
- Academic Standing;
- interfaculty transfer;
- readmission;
- study away;
- scholarships and awards;
- graduation;
- teacher certification.

At McGill, ISA works closely with students, departments, and other faculties, as well as externally in close partnership with schools, boards, and the larger community.

Office: Education Building, Room 243
 Telephone: 514-398-7042 (Student Affairs); 514-398-7046 (Student Teaching Placement Coordinators)
 Fax: 514-398-4679
 Email: isa.education@mcgill.ca
 Website: mcgill.ca/isa

5.3.8 Faculty Institutes, Offices, and Centres

5.3.8.1 The Institute for Human Development and Well-Being

The Institute for Human Development and Well-Being (IHDW) is a newly formed research institute led by the Faculty of Education that encourages a transdisciplinary and multidisciplinary approach to the study of human development and well-being.

It works across three main axes:

- human development across the life span;
- the role of family, community, and schools in supporting human development and well-being;
- social policy and planning in relation to children and youth.

Director: Dr. Claudia Mitchell (*James McGill Professor*)
 Email: claudia.mitchell@mcgill.ca
 Website: mcgill.ca/ihdw

5.3.8.2 The International Centre for Youth Gambling Problems and High-Risk Behaviors

McGill University's International Centre for Youth Gambling Problems and High-Risk Behaviors has been attempting to identify and understand the underlying determinants and critical factors related to youth gambling problems and their relationship with other adolescent addictive and high-risk behaviours. The ongoing research efforts conducted by Drs. Derevensky and Gupta, along with their graduate students, have been crucial in helping to identify the determinants placing youth at risk for gambling problems, and in the development of empirically based treatment and prevention programs. Of importance has been the Centre's role in impacting public health and social policy in an effort to reduce and minimize the harms associated with excessive, problematic gambling.

Director: Dr. Jeffrey Derevensky
 Website: youthgambling.com

5.3.8.3 The Research Centre for Physical Activity and Health

The Research Centre for Physical Activity and Health brings together specialists from different areas of research to investigate the implications of physical activity on health and well-being. The Centre's researchers examine physiological, neuromechanical, or behavioural aspects of physical activity and healthy living, in an attempt to bridge the gap between basic sciences (e.g., cellular physiology) and applied sciences (e.g., clinical exercise physiology) through multidisciplinary research.

Director: Dr. Dennis Jensen
 Website: mcgill.ca/path

5.4.5 Administrative Officers

Dean

Dilson Rassier; B.P.E.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)

Associate Deans

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Montr.) (*Academic Programs*)

Marta Kobiela; B.S., M.S. (Texas), Ph.D.,(Vanderbilt) (*Infrastructure*)

Nancy L. Heath; B.A.(McG.), M.Ed.(Ott.), Ph.D.(Tor

Graduate Programs: The Faculty offers graduate programs for those already holding a university degree who wish to pursue advanced study and research leading to master's and doctoral degrees in various fields of education and psychology. A new Master of Arts in Teaching and Learning, which leads to teacher certification, is also offered; more information is available at mcgill.ca/dise/grad.

Undergraduate programs of initial teacher education are described below in [section 5.5.1: Undergraduate Education Programs](#); programs of professional development are described in the [School of Continuing Studies section](#); and graduate programs are described in the [Graduate and Postdoctoral Studies section](#).

5.5.1 Undergraduate Education Programs

The Faculty of Education offers the following undergraduate programs. Details of each program may be found in this publication under the headings of the appropriate department.

All Bachelor of Education programs have been accredited by the *Comité d'agrément des programmes de formation à l'enseignement* (CAPFE).

The credit weights given are for students who have completed a Quebec CEGEP degree, or have been granted 30 credits of Advanced Standing. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

Undergraduate Education Programs Leading to Certification

[section 5.8.2.4.1: Bachelor of Education: Secondary Program \(120 credits\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.4.3: Bachelor of Education \(Kindergarten and Elementary\) \(120 credits\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.12: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.13.1: B.Ed. Kindergarten and Elementary Program \(Jewish Studies Option\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.14: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Pédagogie de l'Immersion Française \(120 credits\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.4.4: Bachelor of Education in Teac](#)

5.5.1.1.1 CASPer Test Requirement for B.Ed. Kindergarten/Elementary, Secondary, TESL, and Music Programs

All applicants to the following Bachelor of Education (B.Ed.) Programs, in the Department of Integrated Studies in Education (DISE), Faculty of Education, McGill University are required to complete an online assessment, CASPer®takecasper.com/about-casper/, to be eligible for admission:

- B.Ed. in Kindergarten and Elementary Education (except the First Nations and Inuit Education (FNIE) option)
- B.Ed. in Secondary Education (all profiles) • B.Ed. in Teaching English as a Second Language (all options)
- B.Ed. in Music (except applicants to the Concurrent B.Mus/B.Ed. program).

More information on the CASPer test requirement can be found at mcgill.ca/dise/files/dise/casper_bed_9oct2020.pdf.



Note: Special, Visiting, and Exchange applicants are exempted from this requirement.

For information about interfaculty transfers or readmission, see [University Regulations and Resources > Undergraduate > Registration > section 1.3.6: Interfaculty Transfer](#) or [section 1.3.10: Readmission](#), as well as information posted on the Internships and Student Affairs Office website: mcgill.ca/isa/student.

5.5.1.1.2 Language Requirement for Applicants to B.Ed. TESL Program

The application process for the B.Ed.

5.5.1.3.1 International Students

In addition to the CAQ and Study Permit, international students in Bachelor of Education programs must hold a valid "Internship/Co-op Work Permit" issued by Citizenship and Immigration Canada as a requirement for the mandatory Field Experiences. Applicants require a medical exam completed by a CIC-certified physician. Failure to do the medical exam will result in a remark that prohibits students from working in primary or secondary schools on their work permit. Consult International Student Services for more information: mcgill.ca/internationalstudents/work/work-permits/co-opinternship-work-permit.

Bachelor of Education – Kindergarten and Elementary First Nations and Inuit Studies Option

Detailed information about this program may be found at [section 5.8.2.12: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#)

orientation, gender identity or expression, race/ethnicity, religion, linguistic and cultural background, age, physical or mental ability, or any other aspect integral to one's personhood. We therefore recognize that it is our individual and collective responsibility, to strive to establish and maintain an environment wherein all interactions are based on empathy and mutual respect for the person, acknowledging differences of perspectives, free from judgment, censure, and/or stigma.

Finally, McGill's teacher education community is charged with ensuring that all graduates of its programs have the requisite knowledge, skills, and attitudes

Students will receive credits for all courses (subject to degree regulations) taken up to and including the semester in which they obtain the full degree credit requirements. Students who wish to remain at McGill beyond that semester must seek permission of the Director of Internships and Student Affairs. Students who wish to exceed the specified minimum number of credits required for their degree must also seek permission of the Director of Internships and Student Affairs. If permission is granted, credits over the limit will be flagged for no credit and the grades will not count in the CGPA.

Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as change of program or approved part-time status. If permission is granted, students will receive credit only for required and complementary courses necessary to complete their program requirements.

5.6.5.3 Course Requirements

All required and complementary courses used to fulfil program requirements must be completed with a grade of C or better. Students who fail to obtain a satisfactory grade in a required and/or complementary course must either pass the supplemental examination if available, or repeat the course. If the failed course is a complementary course required by the program, a student may choose to replace it with another complementary course. If a student repeats a required course in which a D was received, credit will only be given once. Students must contact their program adviser at least once each academic year and at the end of year 3 (B.Ed. Programs) and year 2 (B.Sc. Kinesiology program) to ensure that they are on the right track to completing their program requirements. A failure (F, J, KF, WF) in any level of Field Experience places a student in Unsatisfactory Standing, requiring withdrawal from the program. Further details on requirements for Field Experience are listed in [Faculty of Education > Undergraduate > section 5.7: Student Teaching/Field Experience](#).

5.6.5.4 Electives

Any courses taught at McGill University may be used towards elective credits, with the following exceptions:

- School of Continuing Studies courses with a teaching unit that starts with C are not for credit (except for CHEM courses, and courses offered by the McGill Writing Centre).
- Online Education: Refer to the [section 5.6.5.7: Online Courses](#) section below.

5.6.5.5 Courses Taken as Transfer Credit

Students wishing to study away at a university outside of Quebec must obtain approval from their academic adviser and the Internships and Student Affairs Office prior to taking a transfer course. Students will only be permitted to take courses required to complete their program. Students are not permitted to take transfer courses during their graduating term. Please refer to [University Regulations and Resources > Undergraduate > Student Records > section 1.5.6: Transfer Credits](#) for further information.

5.6.5.6 Inter-University Transfer Credit

Students may, with the permission of their academic adviser, register at any univ0 0 1 lre

5.6.6 Registration

All students register by Minerva, McGill's web-based registration system. For detailed information about registration, refer to

5.6.9 Incomplete Grades

An instructor who believes that there is justification for a student to delay submitting term work may extend the deadline until after the end of the course. In this case, the instructor will submit a grade of “K” (Incomplete), indicating the date by which the work is to be completed.

The **maximum** extensions for the submission of grades to the *Internships and Student Affairs Office* are as follows:

- **April 30** for Fall term courses;
- **July 30** for Winter term courses;
- **November 30** for Summer courses.

It is important to note that instructors may impose earlier deadlines than those listed. Please refer to *University Regulations and Resources > Undergraduate > Student Records > section 1.5.5: Incomplete Courses* for more information.

5.6.10 Examinations

Students should see *University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information* for more information about final examinations and deferred examinations. The exam schedules are posted at *mcgill.ca/exams*, normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

5.6.10.1 Supplemental Examinations

Students who wish to write a supplemental examination for a course in which a supplemental examination is available must apply on *Minerva* within the published deadline. Please refer to *mcgill.ca/exams* for important information.

Students must be in Satisfactory or Probationary Standing and have received a final grade of D, J, F, or U in the course.

5.6.10.2 Reassessment and Rereads

In accordance with the Charter of Student Rights, and subject to the conditions stated therein, students have the right to consult any written submission for which they have received a grade and the right to discuss this submission with the examiner (see *University Regulations and Resources > Undergraduate > Examinations: Gener*

5.6.11 Academic Standing

Academic Standing is based primarily on students' cumulative grade point average (CGPA), but may also be affected by their term grade point average (TGPA). For students in the B.Ed. programs, it is also based on their performance in the Field Experience courses. Academic Standing, which is assessed after the end of term, determines if students will be allowed to continue their studies in the next term and if any conditions will be attached to their registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which students have deferred examinations and Fall term grades for courses that span the Fall and Winter terms do not affect Academic Standing for the Fall term, even though they will ultimately affect students' Fall TGPA. Therefore, Academic Standing for the Fall term is designated as "Interim" and should be interpreted as advisory.

Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions. Students who do not receive a Pass grade for a Fall term EDFE (Field Experience course) are placed in Unsatisfactory Standing. Permission may be granted to allow them to continue taking courses during the Winter term only.

5.6.11.1 Satisfactory/Interim Satisfactory Standing

Students in Interim Satisfactory or Satisfactory Standing:

- may continue in their program;
- have a CGPA of 2.00 or greater.

5.6.11.2 Probationary/Interim Probationary Standing

5.6.11.2.1 Interim Probationary Standing at the end of the Fall term

Students in Interim Probationary Standing at the end of the Fall term:

- may continue in their program;
- should evaluate their course load and reduce it;
- should consult with their program adviser before the withdrawal deadlines;
- are permitted to proceed with the next scheduled Field Experience course, i.e., Winter or Spring, for F.t.,

- may not continue in their program.

5.6.11.3.3 Readmitted Unsatisfactory Standing

Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Director, Internships and Student Affairs or the Student Affairs Committee will have their Standing changed to Readmitted Unsatisfactory Standing. Their course load is specified at the time of readmission, as are the conditions they must meet to be allowed to continue in their program. They should see their departmental adviser to discuss their course selection.

5.6.11.3.4 Students will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term)

- if their CGPA falls or remains below 1.50;
- if their TGPA falls below 2.50 and their CGPA is below 2.00 and they were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing;
- if they receive a failure (F, J, KF, WF) in a student teaching/Field Experience course of any level (in this case, students will be placed in Unsatisfactory Standing, regardless of the term);
- if they were previously in Unsatisfactory Standing and were readmitted to the Faculty by the Director, Internships and Student Affairs or the Student Affairs Committee and have not at least satisfied the conditions to attain Probationary Standing that were specified in the letter of readmission.



Note: Students in the Concurrent B.Mus. and B.Ed. program who receive an F or J in any Education Field Experience course are placed in Unsatisfactory Standing. Although they may complete their term, they are required to withdraw from the Concurrent program. They may, however, contact the Schulich School of Music regarding application to a Bachelor of Music degree.

5.6.11.3.5 Readmission

Students should apply on Minerva by July 1 for readmission to the Fall term or by November 15 for the Winter term. Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Director, Internships and Student Affairs. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). **Additional conditions** apply.

Students in Unsatisfactory Standing for the second time must withdraw permanently. Students who were placed in Unsatisfactory Standing d 0 0 cm/I1 DoQ5 473.44 T

- must register for the appropriate Field Experience course by the date set forth by the Internships & Student Affairs Office; this date will be communicated to students at their @mail.mcgill.ca email address;
- who are registered for a Field Experience course will receive instructions for accessing the online Student Teaching Placement Form at their @mail.mcgill.ca email address. Forms must be submitted by the date indicated.

5.7.2.2 Returning Students

Returning students:

- must register for the appropriate Field Experience course by the date set forth by the Internships & Student Affairs Office; this date will be communicated to students at their @mail.mcgill.ca email address;
- who are registered for a Field Experience course will receive instructions for accessing the online Student Teaching Placement Form at their @mail.mcgill.ca email address. Forms must be submitted by the date indicated;
- must be in Satisfactory Standing and have satisfied all prerequisite and corequisite course requirements (refer to mcgill.ca/isa/teaching). **B.Ed. Secondary** program students must have successfully completed 24 credits in their official subject area prior to Field Experience 3. All **B.Ed.** students must successfully pass the English Exam for Teacher Certification (EETC; EDEC 215) prior to Field Experience 3. Minerva does not necessarily prevent students from registering for courses that they should not take. It is the student's responsibility to be aware of prerequisites, corequisites, restrictions, and Faculty regulations that apply to the courses in which they register. Students should consult an academic adviser for assistance. Students missing any of these requirements will be removed from their field placement. (See [section 5.7.4.1: Early Dismissal from Field Experience.](#))
- in **B.Ed. K/Elementary, Secondary**, and **TESL** programs who wish to transfer within these programs will not be required to repeat Field Experience 1.

5.7.3 Student Responsibilities

Students are responsible for familiarizing themselves with the policies and rules governing all aspects of Field Experience, including pedagogical and professional behaviour, av

5.7.3.4 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 apply for an internship/co-op work permit issued by Citizenship and Immigration Canada (CIC) to complete their mandatory Field Experiences. This is not the same as an off-campus paid work permit, and it is not automatically included in the study permit. The internship/co-op work permit is free of charge, but takes time to obtain and requires a medical exam by a designated CIC physician; medical exam fees vary. For assistance with the application process, students should contact International Student Services: mcgill.ca/internationalstudents.

5.7.4 Grading and Credit

Field Experiences are graded "Pass/Fail" ("P", "F") and final grades are based on field evaluation forms from both the Field Supervisor and Cooperating Teacher.

Where a student is experiencing serious difficulties in a Field Experience but has demonstrated some potential to successfully reach the required standard, the student may be granted a grade of "D". In this case, the ISA Director has the authority to grant permission for the student to repeat the Field Experience during the next term in which it is regularly offered. This permission will be granted once only in a student's program.

Given the emphasis of the corequisite course(s) on supporting the fieldwork component and vice versa, students who receive a grade of "D" in a Field Experience may be required to withdraw from the corequisite course(s) depending on the date of early dismissal and percentage of corequisite course(s) completed. A decision in this reg

5.7.4.3 Transfer Credit

Field Experience courses from other institutions are not eligible for transfer credit to McGill. Students must complete all Field Experiences at McGill, as required by their program.

For general information about transfer credits at McGill, see mcgill.ca/transferecredit, as well as Faculty-specific information at mcgill.ca/isa/student/new.

5.7.5 McGill Principles of Practice, Behaviour and Ethical Conduct for Teacher Candidates

5.7.5.1 Section I. Introduction

- The mission of McGill University's Bachelor of Education Program within the Department of Integrated Studies in Education (DISE) and the Department of Kinesiology and Physical Education (KPE) as well as the Master of Teaching and Learning (MATL) Program within DISE in cooperation with the Faculty of Education's Internship and Student Affairs Office (ISA) is to prepare teachers who are knowledgeable, skillful, flexible, creative, and compassionate members of the profession guided by a sense of social and ethical responsibility in relation to their students and the wider society.

In keeping with the professional culture of teaching and learning, McGill's teacher education community believes that teaching and learning spaces should model such professional environments. McGill's teacher education community is committed to creating authentic opportunities where an understanding of teaching and learning is co-constructed between instructors and teacher candidates, teachers and learners, as well as peer-to-peer and beyond. In order for us to create these learning environments, we are expected to demonstrate awareness of, respect for, and commitment to, the behaviours and actions of professionals. We expect members of McGill's teacher education community, including teacher candidates, teaching assistants, lecturers, professors and community partners to be accountable to themselves and others, and to be engaged, collegial, and accessible. By doing so, McGill's teacher education community is more fully able to share together in the types of critical dialogue, creative thinking, and reflective practice expected of professionals.

McGill's teacher education community is committed to nurturing a space where teacher candidates, teaching assistants, lecturers, professors and community partners can all engage in the exchange of ideas and dialogue, without fear of being made to feel unwelcome or unsafe on account of biological sex, sexual orientation, gender identity or expression, race/ethnicity, religion, linguistic and cultural background, age, physical or mental ability, or any other aspect integral to one's personhood. We therefore recognize that it is our individual and collective responsibility, to strive to establish and maintain an environment wherein all interactions are based on empathy and mutual respect for the person, acknowledging differences of perspectives, free from judgment, censure, and/or stigma.

Finally, McGill's teacher education community is charged with ensuring that all graduates of its programs have the requisite knowledge, skills, and attitudes required of the teaching profession and can meet standards of the Qu

- f.** relationships of phenomena related to teaching, learning, and assessment in human development; and
- g.** the impact of family and community on children's learning and development.

At the undergraduate level, the Department of Educational and Counselling Psychology is responsible for the B.A. Minor Concentration Educational Psychology; see the [F](#)

Emeritus Professors

Cynthia B. Weston; B.A.(G'town), M.L.S.(SUNY), Ed.D.(Wash.)

Professors

Jacob A. Burack; B.A.(Col.), M.S., M.Phil., Ph.D.(Yale)

Jeffrey L. Derevensky; B.A.(C.W. Post), M.A., Ph.D.(McG.) (*James McGill Professor*)

Martin Drapeau; B.A.(Montr.), B.A.Ps.(UQTR), M.Ps.(Laval), Ph.D.(UQAM)

Nancy L. Heath; B.A.(McG.), M.Ed.(Ott.), Ph.D.(Tor.) (*James McGill Professor*)

Susanne P. Lajoie; B.A., M.A.(McG.), Ph.D.(Stan.) (*Canada Research Chair, Tier 1*)

Krista Muis; B.A.(Wat.), M.A.(Vic., BC), Ph.D.(S. Fraser) (*Canada Research Chair, Tier 2*)

Alenoush Saroyan; B.A.(Pahlavi), M.Ed.(Loyola-Ill.), Ph.D.(McG.)

Victoria Talwar; M.A.(St. And.), M.A., Ph.D.(Qu.) (*Canada Research Chair, Tier 2*)

Associate Professors

Armando Bertone; B.A., M.A.(C'dia), M.Ps., Ph.D.(Montr.) (*William Dawson Scholar*)

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Montr.)

Tara Flanagan; B.A.(Winn.), M.A., Ph.D.(McG.)

Nathan Hall; B.A., M.A., Ph.D.(Manit.)

Michael L. Hoover; B.S.(Tulane), M.A., M.Phil., Ph.D.(Col.)

Annett K

Associate Members

Reut Gruber; B.A., M.A., Ph.D.(Tel Aviv) (*Psychiatry*)

Vera Romano; B.A., Dip. H.R. & F.L.E., M.Ed., Ph.D.(McG.) (*McGill Student Wellness Hub*)

Brett D. Thombs; B.A.(N'western), M.A.(Ariz.), M.A., Ph.D.(Fordham) (*Psychiatry*)

Ashley W

Co-Directors of Ph.D. Program and MA Thesis Programs

Marta Kobiela

Paul Zanazanian

Co-Directors of MA Non-Thesis Programs

Caroline Riches

Joseph Levitan

Director of Internships and Student Affairs

Lisa Starr

Emeritus Professors

Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)

David Dillon; B.A.(St. Columban's), M.S.(SW Texas St.), Ph.D.(Texas-Austin)

Margaret Gillett; B.A., Dip.Ed.(Syd.), M.A.(Russell Sage), Ed.D.(Col.) (*William C. Macdonald Emeritus Professor of Education*)

John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)

Denise Lussier; B.A.(Coll. Jesus Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval) (*Post-retirement*)

Roy Lyster; B.A.(Regina), M.A.(Paris VII), B.Ed., M.Ed., Ph.D.(Tor.)

Mary H. Maguire; B.A., B.Ed., M.A.(Montr.), M.Ed., Cert. Reading(McG.), Ph.D.(Ariz.)

Anthony Paré; 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., Ed.D.(Harv.)

David C. Smith; B.Ed.(McG.), Ph.D.(Lond.), F.C.C.T., F.R.S.A.

R. Lynn Studham; N.D.D.(Sunder. Coll.), A.R.A.(Royal Acad., Copen.), M.A.(E. Carolina), C.S.G.A., S.C.A.

Lise Winer; B.A.(Pitt.), M.A.(Minn.), Cert. Ped.(C'dia), Ph.D.(UWI)

John

Assistant Professors

Susan Ballinger; B.A.(Wash.), M.A., Ph.D.(McG.)

Application to the Concurrent B.Mus./B.Ed. program may be made online at mcgill.ca/applying, where you can also obtain more information, alternatively please contact:

Admissions Office
Schulich School of Music, McGill University
555 Sherbrooke Street West
Montreal QC H3A 1E3
Telephone: 514-398-4546
Email: undergraduateadmissions.music@mcgill.ca
Website: mcgill.ca/music/admissions/undergraduate

Applicants who have completed a Bachelor of Music degree from a North American univ

- [section 5.8.2.16: Bachelor of Education \(B.Ed.\) - Teaching English as a Second Language - TESL Elementary and Secondary: Teaching Greek Language & Culture \(120 credits\)](#)

5.8.2.4.5 In Community Programs

The Department of Integrated Studies in Education offers a number of in community programs through the Office of First Nations and Inuit Education: a B.Ed. K/Elem First Nations and Inuit Studies; a Certificate in Education for First Nations and Inuit; a Certificate in Indigenous Language and Literacy Education; a Certificate in Middle School Education in Indigenous Communities; a Certificate in First Nations and Inuit Educational Leadership; a Certificate in First Nations and Inuit Student Personnel Services; and a Bachelor of Education for Certified Teachers.

For more information, see:

- [section 5.8.2.12: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#)
- [section 5.8.3.1: Certificate \(Cert.\) Education for First Nations and Inuit \(60 credits\)](#)
- [section 5.8.3.2: Certificate \(Cert.\) Indigenous Language and Literacy Education \(30 credits\)](#)
- [section 5.8.3.3: Certificate \(Cert.\) Middle School Education in Indigenous Communities \(30 credits\)](#)
- [section 5.8.3.4: Certificate \(Cert.\) First Nations and Inuit Educational Leadership \(30 credits\)](#)
- [section 5.8.3.6: Certificate \(Cert.\) First Nations and Inuit Student Personnel Services \(30 credits\)](#)
- [section 5.8.3.5: Bachelor of Education for Certified Teachers - Elementary Education: Indigenous Education \(90 credits\)](#)

5.8.2.4.5.1 Graduate Programs

At the graduate level, the Department offers M.A. programs with thesis and non-thesis options in the following areas: Education and Society, Educational Leadership, and Second Language Education.

The Department offers a Master of Arts in Teaching and Learning (MATL), leading to teacher certification at the secondary level for those meeting specific criteria. See mcgill.ca/dise/grad.

The Department also offers graduate certificates in Leadership, Teaching English as a Second Language and Pédagogie de l'Immersion Française. See mcgill.ca/dise/grad.

5.8.2.5 Bachelor of Education (B.Ed.) - Secondary English (120 credits)

The Bachelor of Education (B.Ed.) - Secondary English program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this eCalendar section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secenglish>.

The Secondary English program provides students with the learning opportunities needed to become proficient English teachers.

FRSL 207D2

(3)

Elementary French 01

FRSL 211D1

(3m2d)

Oral and Written French 1

Complementary Language/Linguistics courses (6 credits)

CEAP 250*	(3)	Research Essay and Rhetoric
EDEC 203*	(3)	Communication in Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 350	(3)	Essentials of English Grammar
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
LING 355	(3)	Language Acquisition 1

* Note: Students may take either CEAP 250 OR EDEC 203 for credit but not both

Complementary Courses

42 credits distributed as follows (including at least one course in Shakespeare):

Literature (30 credits)

A minimum of 15 credits must be at the 300 level or higher, chosen from the English Department undergraduate complementary course list (<http://www>

ENGL 215

- (3) Introduction to Shakespeare
- (3) Introduction to Theatre Studies

A minimum of 3 credits at the 300 level or higher from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
LLCU 200	(3)	Topics in Film
LLCU 250	(3)	History and Future of the Book

Drama/Theatre (3 credits)

Chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

ENGL 215	(3)	Introduction to Shakespeare
ENGL 230	(3)	Introduction to Theatre Studies

Unofficial "Teachable" Subject Area (15 credits)

15 credits of designated courses for Secondary English Option 2 students (Math, Social Sciences, or Science and Technology - see an adviser for course selection.)

Elective Courses (6 credits)

Note: Students who have chosen to do Option 2 (36 credits in one teachable subject and 15 credits in another) will use 3 credits of electives to take the Secondary Teaching Methods course needed for their second unofficial teachable subject.

5.8.2.6 Bachelor of Education (B.Ed.) - Secondary Mathematics (120 credits)

The Bachelor of Education (B.Ed.) – Secondary Mathematics program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

Note: Students entering this program from CEGEP or with Advanced Standing should have a strong background in their Mathematics courses. Students entering from CEGEP or with Advanced Standing without having completed two calculus courses and one linear algebra course (MATH 133, MATH 140, and MATH 141 or their equivalents) will be required to make up any deficiencies in these courses over and above the degree requirements.

The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level.

This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this eCalendar section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secmath.y> deficiscE25Dfy cod tw

FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions

Required Courses (60 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices
EDES 353	(3)	Teaching Secondary Mathematics 1
EDES 453	(3)	Teaching Secondary Mathematics 2
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary Mathematics Subject Area (51 credits)

Secondary Mathematics students complete 51 credits selected in consultation with the Program Adviser in one of tw

21 credits from the list of "Required Mathematics Courses" and
30 credits from the list of "Complementary Mathematics Courses"

Or

Option 2:

21 credits from the list of "Required Mathematics Courses" and
15 credits from the list of "Complementary Mathematics Courses"

And

15 credits of designated courses in another unofficial "teachable" subject area (English, Social Sciences, or Science and Technology - see an adviser for courses).

Required Mathematics Courses (21 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 228	(3)	Classical Geometry
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 338	(3)	History and Philosophy of Mathematics

Complementary Mathematics Courses

(30 OR 15 credits)

3 credits from:

MATH 235*	(3)	Algebra 1
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MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 417	(3)	Linear Optimization
MATH 423	(3)	Applied Regression
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHIL 210**	(3)	Introduction to Deductive Logic 1

** Students cannot receive credit for both.

Unofficial "Teachable" Subject Area

15 credits

15 credits of designated courses for Secondary Mathematics Option 2 students (English, Social Sciences, or Science and Technology - see an adviser for course selection)

Electives (6 credits)

Note: Students who hav

MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B
PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

Freshman Program - Complementary

For Freshman students with Advanced Standing in one or more of the basic sciences, the Faculty also recommends some of the courses listed below. French Second Language (FRSL) courses require a placement test to determine the course level.

CEAP 250	(3)	Research Essay and Rhetoric
EDEM 220	(3)	Contemporary Issues in Education
FRSL 101	(3)	Beginners French 1
FRSL 102	(3)	Beginners French 2
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1

Required Courses (60 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary Science and Technology (51 credits)

51 credits in designated science courses selected to provide subject matter expertise in the four areas of:

the Material World

- Earth and Space

- the Living World

- the Technological World

All students need to plan their course selections with attention to the prerequisites.

Required Courses (15 credits)

3 credits of Statistics:

MATH 203	(3)	Principles of Statistics 1
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3 credits of History of Science:

EDTL 520	(3)	Perspectives on Knowledge in Mathematics and Science
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3 credits of the Material World:

CHEM 281	(3)	Inorganic Chemistry 1
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3 credits of the Living World:

BIOL 206	(3)	Methods in Biology
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3 credits of the Technological World:

EDTL 525	(3)	Teaching Science and Technology
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Core Complementary Courses (10 credits)

The Living World

3 credits from:

BIOL 200	(3)	Molecular Biology
LSCI 202	(3)	Molecular Cell Biology

The Material World

3 credits from:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics

4 credits from:

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 232	(4)	Organic Chemistry Principles

Complementary Courses (26 credits)

At least 9 of the 26 credits must be taken at the 300 level or above, distributed as follows:

- 3 to 15 credits from the Living World complementary list;
- 3 to 18 credits from Earth and Space complementary list;
- 3 to 18 credits from Earth and Space - Environment complementary list;

Earth and Space

Students select a minimum of 3 credits to a maximum of 18 credits from the following list:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ENVR 202	(3)	The Evolving Earth
EPSC 201	(3)	Understanding Planet Earth
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 221	(3)	General Geology
EPSC 225	(1)	Properties of Minerals
EPSC 233	(3)	Earth and Life History
EPSC 303	(3)	Structural Geology
EPSC 320	(3)	Elementary Earth Physics
EPSC 350	(3)	Tectonics
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
GEOG 272	(3)	Earth's Changing Surface
GEOG 321	(3)	Climatic Environments
PHYS 320	(3)	Introductory Astrophysics

Earth and Space - Environment

Students select a minimum of 3 credits to a maximum of 18 credits from the following list:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 221	(3)	Environment and Health

The Material World

Students select a maximum of 15 credits from the following list:

Note: Students who plan to teach Grade 11 Chemistry or Physics should select the maximum 15 credits from this list:

CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis

CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Experimental Chemistry 1
CHEM 429	(3)	Chemistry of Energy, Storage and Utilization.
MATH 222	(3)	Calculus 3
PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 271	(3)	Introduction to Quantum Physics
PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 346	(3)	Majors Quantum Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
		Majors Laboratory in Modernjors ElectricityT2 Laboratory in Modernjo 70.52 426.HYS 328

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this eCalendar section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secsoesci>.

The Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture program provides students with the learning opportunities needed to become proficient Social Science teachers with a strong knowledge base in the associated disciplinary areas.

Please note that graduates of teacher education programs are recommended by the Univ

EDER 372	(3)	Ethics and Religious Culture (Secondary)
EDES 334	(3)	Teaching Secondary Social Studies 1
EDES 350	(3)	Classroom Practices
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below.

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary Social Sciences - History & Citizenship, Ethics & Religious Culture Subject Area (51 credits)

Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture students complete 51 credits selected in consultation with the Program Adviser with the following specifications:

Required Courses

History

9 credits:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303	(3)	History of Quebec

Complementary Courses (42 credits)

History and Citizenship (24 credits)

At least 9 of the 24 credits must be taken at the 300 or 400 level, distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

6 credits of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health.

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

6-12 credits selected from the following list. Students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI:

ANTH 338	(3)	Native Peoples of North America
CANS 200	(3)	Understanding Canada
ECON 199	(3)	FYS: Aspects of Globalization

ECON 205	(3)	An Introduction to Political Economy
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 219	(3)	Current Economic Problems: Topics
ECON 221	(3)	Economic History
ECON 313	(3)	Economic Development 1
ECON 326	(3)	Ecological Economics
ECON 341	(3)	Economic History of a World Area
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
POLI 212	(3)	Government and Politics - Developed World
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Ethics and Religious Culture

18 credits as specified below.

6 credits from:

EDER 309	(3)	The Religious Quest
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 309	(3)	World Religions and Cultures They Create

6 credits from:

EDER 209	(3)	Search for Authenticity
EDER 395	(3)	Moral Values and Human Action

EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Human Rights and Ethics in Practice
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues

6 credits from:

CATH 200	(3)	Introduction to Catholicism
EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 319	(3)	Teaching the Holocaust
EDER 394	(3)	Philosophy of God
RELG 270	(3)	Religious Ethics and the Environment

Electives (6 credits)

6 credits

Bachelor of Education (B.Ed.) - SecP8ege

Secondary Social Sciences - History and Citizenship, Geography students complete 51 credits selected in consultation with the Program Adviser with the following specifications:

Required Courses

History

9 credits selected from:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303	(3)	History of Quebec

Complementary Courses (42 credits)

History and Citizenship (24 credits)

At least 9 of the 24 credits must be taken at the 300 or 400 level, distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

6 credits of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

6-12 credits selected from the following list (students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI):

ANTH 338	(3)	Native Peoples of North America
CANS 200	(3)	Understanding Canada
ECON 199	(3)	FYS: Aspects of Globalization
ECON 205	(3)	An Introduction to Political Economy
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 219	(3)	Current Economic Problems: Topics
ECON 221	(3)	Economic History
ECON 313	(3)	Economic Development 1
ECON 326	(3)	Ecological Economics
ECON 341	(3)	Economic History of a World Area
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
POLI 212	(3)	Government and Politics - Developed World
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
		International Politics: State Behav 345 ,

POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding Inequality and Development

Program Prerequisites - Freshman Program

33 credits

Prerequisite Courses

33 credits distributed as follows:

4 credits (2 credits per term) Basic Ensemble Training

6 credits of Non-Music Electives

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Music concentration or equivalent, or students transferring from other universities or colleges, who have successfully completed a course in the history of Western music, will be exempted from the first-year Western Musical Traditions requirement (MUHL 186).

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 235	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Music Components (50 credits)

50 credits of required Music courses distributed as follows:

25 credits of Music Education

9 credits of Theory

3 credits of Composition/Arranging

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Music Education

25 credits:

MUCT 235	(3)	Vocal Techniques
MUGT 215	(1)	Basic Conducting Techniques
MUGT 354	(3)	Music for Children
MUGT 358	(3)	General Music for Adults and Teenagers
MUGT 401	(3)	Issues in Music Education
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

Theory

9 credits:

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Composition/Arranging

3 credits from:

MUCO 230	(3)	The Art of Composition
MUCO 261	(3)	Orchestration 1
MUJZ 260	(3)	Jazz Arranging 1

Musicianship

4 credits:

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits:

MUHL 286	(3)	Critical Thinking About Music
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Performance

6 credits:

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementar

3 credits, select EDEA 362 or any course with a prefix of MUIT or MUGT.

EDEA 362	(3)	Movement, Music and Communication
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Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Music History

6 credits of courses with a MUHL or a MUPP prefix

Performance

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Electives (8 credits)

8 credits of free electives

Required Education Courses (46 credits)

EDEA 206	(1)	1st Year Professional Seminar
		Second Professional Seminar (Music)(18V1st

(3) Philosophical Foundations

RELG 341 (3) Introduction: Philosophy of Religion

Kindergarten and Elementary Teaching Methods - Art, Drama, or Music

3-6 credits from:

EDEA 332 (3) Art Curriculum and Instruction - Elementary
 EDEA 342 (3) Curriculum and Instruction in Drama Education
 EDEA 345 (3) Music Curriculum and Instruction for Generalists

Kindergarten & Elementary Teaching Methods - Physical Education or English Second Language

0-3 credits from:

Students may select both their Methods courses from the list above for Art, Drama, or Music.

* Note: EDSL 447 has EDSL 350 as a prerequisite.

EDKP 332 (3) Physical Education Curriculum and Instruction
 EDSL 447* (3) Methods in TESL 1

Kindergarten & Elementary Education - Subject Areas (18 credits)

18 credits selected in consultation with the Program Adviser as follows:

9 credits in "teachable" subject area courses of the elementary school curriculum from the lists below for Art, English, Ethics and Religious Culture, French, Mathematics, Music, Natural Sciences, Physical Education, and Social Studies.

And

9 credits, 3 credits from each of any three subject areas not chosen above.

No more than 9 credits may be selected from any single course list.

Art

Students may select up to 9 credits from this list and from Art History (ARTH) courses.

EDEA 204 (3) Drawing
 EDEA 205 (3) Painting 2
 EDEA 241 (3) Basic Art Media for Classroom
 EDEA 296 (3) Basic Design
 EDEA 304 (3) Painting 3
 EDEA 305 (3) Painting 4
 EDEA 307 (3) Drawing 2
 EDEA 410 (3) Aesthetics and Art for the Classroom
 EDEA 496 (3) Sculpture 1
 EDEA 497 (3) Sculpture 2

English

Students may select up to 9 credits from this list.

CLAS 203 (3) Greek Mythology
 COMS 200 (3) History of Communication
 COMS 210 (3) Introduction to Communication Studies
 COMS 300 (3) Media and Modernity in the 20th Century
 COMS 310 (3) Media and Feminist Studies

COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
EDEE 325*	(3)	Children's Literature
EDES 366	(3)	Literature for Young Adults
EDSL 350	(3)	Essentials of English Grammar
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 225	(3)	American Literature 1
ENGL 226	(3)	American Literature 2
ENGL 227	(3)	American Literature 3
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 230	(3)	Introduction to Theatre Studies

PHIL 237	(3)	Contemporary Moral Issues
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality

French

Students may choose up to 9 credits of French as a Second Language (FRSL) courses and/or French (FREN) courses and/or:

EDSL 341	(3)	Littérature et littérature jeunesse en FLS
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Mathematics

Students may choose up to 9 credits of Mathematics (MATH) courses at the 200 level or higher.

Note: Students admitted with CEGEP mathematics (or equivalent) may not take MATH 111 for credit. MATH 111 is a recommended course for Freshman students.

MATH 111	(3)	Mathematics for Education Students
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Music

Students may choose up to 9 credits from this list. Students may also select any Music course with the MUGT, MUHL, MUIT, or MUCT subject codes.

With the permission of the Program Adviser, students without a formal music background may choose courses with the MUAR subject code.

* Note: Courses marked with a single asterisk ("*") require permission from the Schulich School of Music to register.

EDEA 341	(3)	Listening for Learning
EDEA 352	(3)	Music Listening in Education
EDEA 362	(3)	Movement, Music and Communication
MUJZ 160*	(3)	Jazz Materials 1
MUJZ 161*	(3)	Jazz Materials 2

Natural Sciences

Students may choose up to 9 credits from this list.

ATOC 181	(3)	Introduction to Atmospheric Science
ATOC 182	(3)	Introduction to Oceanic Sciences
ATOC 184	(3)	Science of Storms
ATOC 185	(3)	Natural Disasters
BIOL 115	(3)	Essential Biology
CHEM 180	(3)	World of Chemistry: Environment
CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs
EDEC 374	(3)	Education and the Environment
EDEE 473	(3)	Ecological Studies

EPSC 180	(3)	The Terrestrial Planets
EPSC 181	(3)	Environmental Geology
EPSC 185	(3)	Natural Disasters
EPSC 201	(3)	Understanding Planet Earth
PHYS 180	(3)	Space, Time and Matter
PHYS 181	(3)	Everyday Physics
PHYS 182	(3)	Our Evolving Universe
PHYS 183	(3)	The Milky Way Inside and Out

Physical Education

Students may take up to 9 credits of Physical Education (EDKP) courses from the list with the permission of the Department of Kinesiology and Physical Education.

* Note: EDKP 292 is available as an academic Physical Education course. All other EDKP courses are restricted.

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5.8.2.12 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies (120 credits)

The Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies program requires 120 credits and leads to teacher certification. Interested applicants must contact the office of First Nations and Inuit Education for admission information; please call 514-398-4527.

Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of freshman courses (in addition to the 120 credit program) for a total of 150 credits. Students who are admitted as "mature students" are not required to complete the 30 credits of Freshman courses. These students are admitted to U1.

Please note that graduates of teacher education programs are recommended by the University for Quebec Certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in Elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.).

Students admitted to the First Nations and Inuit Studies program in U0 should consult with their program adviser for guidance on course selection. More information is also found for newly admitted students to the B.Ed. Kindergarten and Elementary Education program on the Faculty of Education website at <http://www.mcgill.ca/dise/fnie/teachcert/kelemfnie/current>.

Required Courses (78 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 216	(0)	Indigenous Language Requirement
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 262	(3)	Media, Technology and Education
EDEC 321	(3)	Visions and Realities of Indigenous Education
EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 253	(3)	Kindergarten Classroom Pedagogy
EDEE 260	(3)	Reading Methods - Kindergarten/Elementary
EDEE 270	(3)	Elementary School Science
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 283	(3)	Social Studies Pedagogy
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDEE 355	(3)	Classroom-based Evaluation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (36 credits)

36 credits of courses selected as described below:

Language - Complementary Component

6 credits from the following language courses chosen according to language group and fluency:

Algonquin

EDEC 270	(3)	Algonquin Heritage Language 1
EDEC 271	(3)	Algonquin Heritage Language 2
EDEC 272	(3)	Algonquin Language 1
EDEC 273	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut

EDEC 289	(3)	Inuktitut Orthography and Grammar
EDEC 403	(3)	The Dialects of Inuktitut

Mi'gmaq

EDEC 237	(3)	Mi'gmaq Heritage Language 1
EDEC 238	(3)	Mi'gmaq Heritage Language 2
EDEC 239	(3)	Mi'gmaq Language 1
EDEC 240	(3)	Mi'gmaq Language 2

Mohawk

EDEC 275	(3)	Mohawk Heritage Language 1
EDEC 276	(3)	Mohawk Heritage Language 2
EDEC 277	(3)	Mohawk Language 1
EDEC 278	(3)	Mohawk Language 2

Naskapi

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2

Education Component

3 credits from:

EDEC 233	(3)	Indigenous Education
EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice Indigenous F

Science Component

3 credits from:

EDEC 374	(3)	Education and the Environment
EDEE 273	(3)	Elementary School Science 2

Religion Component

3 credits from:

EDER 309	(3)	The Religious Quest
EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Human Rights and Ethics in Practice

Kindergarten and Elementary Subject Area Component

9 credits from the subject course lists below

Art

EDEA 204	(3)	Drawing
EDEA 205	(3)	Painting 2
EDEA 241	(3)	Basic Art Media for Classroom
EDEA 242	(3)	Cultural Skills 1
EDEA 243	(3)	Cultural Skills 2
EDEA 296	(3)	Basic Design
EDEA 304	(3)	Painting 3
EDEA 305	(3)	Painting 4
EDEA 307	(3)	Drawing 2
EDEA 410	(3)	Aesthetics and Art for the Classroom
EDEA 496	(3)	Sculpture 1
EDEA 497	(3)	Sculpture 2

English

EDEA 394	(3)	Creative Dramatics for Classroom
EDEE 325	(3)	Children's Literature
EDEE 371	(3)	Integrating Indigenous Storytelling and Creative Writing
EDES 366	(3)	Literature for Young Adults
EDSL 350	(3)	Essentials of English Grammar

Ethics and Religious Culture

EDER 209	(3)	Search for Authenticity
EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 309	(3)	The Religious Quest

EDER 394	(3)	Philosophy of God
EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Human Rights and Ethics in Practice

French

EDSL 341	(3)	Littérature et littérature jeunesse en FLS
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Music

EDEA 341	(3)	Listening for Learning
EDEA 352	(3)	Music Listening in Education
EDEA 362	(3)	Movement, Music and Communication

Natural Science

EDEC 374	(3)	Education and the Environment
EDEE 370	(3)	Traditional Indigenous Life Skills
EDEE 373	(3)	Traditional Healing
EDEE 473	(3)	Ecological Studies

Physical Education

EDKP 204	(3)	Health Education
EDKP 208	(3)	Biomechanics and Motor Learning
EDKP 241	(3)	Indigenous Physical Activities
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness

Social Studies

EDEE 383	(3)	Oral and Family History
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Advanced Indigenous Languages

EDEC 341	(3)	Intermediate Indigenous Heritage Language
EDEC 342	(3)	Intermediate Indigenous Language
EDEC 343	(3)	Advanced Indigenous Heritage Language
EDEC 344	(3)	Advanced Indigenous Language

Methods and Curriculum and Pedagogy Component

12 credits,

6-9 credits from the following

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDSL 247	(3)	Second Language Education in Indigenous Communities
EDSL 300	(3)	Foundations of L2 Education
EDSL 370	(3)	Issues and Practices in Teaching Indigenous Languages
EDSL 390	(3)	Teaching English as a Second Language in the Community

3-6 credits from the following

EDEC 244	(3)	Issues in Aboriginal Education
EDEC 263	(3)	Information Communication Technology in Indigenous Literacy
EDEC 302	(3)	Language and Learning - Curriculum

are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts
F

EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
JWST 211	(3)	Jewish Studies 1: Biblical Period

Complementary Courses (30 credits)

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Teaching Methods (12 credits)

3 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists

9 credits from:

EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 318	(3)	Teaching the Jewish Liturgy
EDER 319	(3)	Teaching the Holocaust
EDER 401	(3)	Teaching Biblical Literature - Jewish School 1

Kindergarten and Elementary - Subject Area: Jewish Studies (15 credits)

In consultation with the Jewish Studies option Program Adviser, students select 15 credits from the undergraduate course offerings of the Department of Jewish Studies, Faculty of Arts.

Electives (3 credits)

5.8.2.13.1 B.Ed. Kindergarten and Elementary Program (Jewish Studies Option)

Students who wish to follow this option should contact:

Professor Eric Caplan
 Department of Integrated Studies in Education
 Faculty of Education
 Telephone: 514-398-6544
 Email: eric.caplan@mcgill.ca

5.8.2.14 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Pédagogie de l'Immersion Française (120 credits)

The Kindergarten and Elementary Pédagogie de l'Immersion Française major is designed to meet the needs of students enrolled in the B.Ed. Kindergarten and Elementary program who wish to teach in French immersion contexts. It consists of 30 credits of French and second language education courses embedded within the regular B.Ed. Kindergarten and Elementary program. In addition, certain other course sections may be offered in French.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification".

Competency in French

Students wishing to follow the Kindergarten and Elementary Pédagogie de l'Immersion Française major must demonstrate a high level of competency in French by: providing proof of graduation from a French language secondary/high school (not French Immersion) or CEGEP; or by placing at the FRSL 431 level or higher on the French Language Placement Test (FLPT) at the French Language Centre (McGill).helTm8

For more information on the FLPT, including test dates, see [www](#)

EDSL 345	(3)	Enseignement du FLS-immersion
EDSL 444	(3)	Laboratoire d'enseignement en français langue seconde

* Students must register in the sections designated as 'Bilingual section'.

** Note: At least one of these Field Experiences must be completed in a French immersion setting.

French Language Proficiency Requirement

EDSL 501	(0)	Attestation de maîtrise langue française
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Complementary Courses (12 credits)

12 credits selected as described below:

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Ethics and Religious Culture

3 credits from:

EDER 309	(3)	The Religious Quest
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 309	(3)	World Religions and Cultures They Create
RELG 341	(3)	Introduction: Philosophy of Religion

French

6 credits selected from courses with a FREN or FRSL (400 level, except 407 or 408) prefix QCST 336 or POLI 336, in consultation with an adviser and in keeping with individual student's French background.

Elective Courses (6 credits)

The following courses are suggested:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists
EDEE 325	(3)	Children's Literature
EDKP 332	(3)	Physical Education Curriculum and Instruction
MATH 111	(3)	Mathematics for Education Students

5.8.2.15 Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary (120 credits)

The Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

The program includes studies in language and language learning from linguistic, literary, social, cultural, and psychological perspectives, accompanied by field experiences. It prepares students to teach English as a Second Language (ESL) at both the elementary school level (including regular and intensive ESL) and the secondary school level (including regular ESL and ESLA - English Second Language Arts), and provides a base for adult and other ESL teaching.

Bachelor of Education (B.Ed.) - Teaching English as a Second Language -

EDFE 209	(2)	First Field Experience (TESL)
EDFE 255	(3)	Second Field Experience (TESL)
EDFE 359**	(8)	Third Field Experience (TESL)
EDFE 459**	(7)	Fourth Field Experience (TESL)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 210	(1)	First Professional Seminar
EDSL 215	(3)	Communication in Education for TESL in Quebec
EDSL 254	(1)	Second Professional Seminar (TESL)
EDSL 300	(3)	Foundations of L2 Education
EDSL 304	(3)	Sociolinguistics and L2 Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 311	(3)	Pedagogical Grammar
EDSL 315	(2)	Third Year Professional Seminar
EDSL 330	(3)	Literacy 1: Teaching Reading in ESL
EDSL 332	(3)	Literacy 2: Teaching Writing in ESL
EDSL 334	(3)	Teaching Oral Skills in ESL
EDSL 350	(3)	Essentials of English Grammar
EDSL 412	(3)	Assessment in TESL
EDSL 415	(3)	Fourth Professional Seminar
EDSL 447	(3)	Methods in TESL 1
EDSL 458	(3)	Methods in TESL 2

* Note: Offered every 3rd year (alternating with CLAS 333, 335).

** Note: At least one of these Field Experiences must be completed in a Hellenic school.

Complementary Courses (30 credits)

30 credits selected as described below:

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists
EDKP 332	(3)	Physical Education Curriculum and Instruction

3 credits from:

LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

3 credits from* FRSL

or

FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire normative
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

(*selected according to individual student's French proficiency level)

TESL and Greek Language & Culture (18 credits)

12-15 credits of Greek Language and Culture from the following (with adviser's approval);

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek 1
CLAS 332	(3)	Intermediate Modern Greek 2
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 498	(3)	Independent Research
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 368	(3)	Greek History: Classical Period

3-6 credits from (with adviser's approval, other courses may be considered):

ARTH 314	(3)	The Medieval City
CLAS 203	(3)	Greek Mythology

Montreal QC H3A 1Y2
Telephone: 514-398-4527
Website: mcgill.ca/dise/ofnie

For details about the **First Nations and Inuit Studies Option** within the Bachelor of Education Kindergarten and Elementary program, see [section 5.8.2.12: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#).

5.8.3.1 Certificate (Cert.) Education for First Nations and Inuit (60 credits)

This 60-credit program provides an opportunity for Algonquin, Cree, Inuit, Mi'gmaq, Mohawk, and Naskapi people to become qualified as teachers. It is offered on a part-time basis in Indigenous communities throughout Quebec in collaboration with, for example, the Cree School Board, the Kativik School Board and various Mi'gmaq, Mohawk, Algonquin and education authorities.

Quebec graduates of this program receive Quebec Ministère de l'Éducation certification to teach at the elementary school level in Indigenous schools.

On completion of the Certificate requirements, trainees may apply for admission to the Bachelor of Education - Kindergarten and Elementary Education - First Nations and Inuit Studies or Bachelor of Education for Certified Teachers program and consult the Program Adviser to determine Advanced Standing.

Time Limit

The time limit for completion of the 60-credit Certificate in Education for First Nations and Inuit is 12 years. The University reserves the right to request that a student retake a course or courses after a five-year period if it is felt that too long a break has occurred in the ongoing nature of the training.

Required Courses (27 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (33 credits)

6 credits from the following language courses according to language group and fluency:

Algonquin

EDEC 270	(3)	Algonquin Heritage Language 1
EDEC 271	(3)	Algonquin Heritage Language 2
EDEC 272	(3)	Algonquin Language 1
EDEC 273	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut(3)

Mi'gmaw

EDEC 237	(3)	Mi'gmaw Heritage Language 1
EDEC 238	(3)	Mi'gmaw Heritage Language 2
EDEC 239	(3)	Mi'gmaw Language 1
EDEC 240	(3)	Mi'gmaw Language 2

Mohawk

EDEC 275	(3)	Mohawk Heritage Language 1
EDEC 276	(3)	Mohawk Heritage Language 2
EDEC 277	(3)	Mohawk Language 1
EDEC 278	(3)	Mohawk Language 2

Naskapi

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2

27 credits from one of the three following Stream course lists:

Stream A: Generalist

Stream B: Physical Education

Stream C: Culture and Language

In order to ensure appropriate choices, students select from the list of Complementary Courses in consultation with the Program Adviser.

Stream A: Generalist

27 credits from the following list:

EDEA 242	(3)	Cultural Skills 1
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 245	(3)	Orientation to Education
EDEE 248	(3)	Reading and Writing Inuktitut/Cree Kinderg

Stream B: Physical Education

21 credits from the following list:

EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 262	(3)	Media, Technology and Education
EDEE 223	(3)	Language Arts
EDEE 245	(3)	Orientation to Education
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDKP 204	(3)	Health Education
EDKP 224	(3)	Foundations of Movement Education
EDKP 241	(3)	Indigenous Physical Activities
EDKP 292	(3)	Nutrition and Wellness
EDKP 307	(3)	Evaluation in Physical Education
EDKP 342	(3)	Physical Education Methods
EDKP 494	(3)	Physical Education Curriculum Development

and 6 credits from the following Physical Education courses:

EDKP 214	(2)	Basketball
EDKP 217	(3)	Track and Field
EDKP 218	(2)	Volleyball
EDKP 223	(3)	Games 1: Elementary Physical Education
EDKP 226	(1)	Quebec Education Program Orientation
EDKP 229	(1)	Ice Hockey 1
EDKP 240	(1)	Winter Activities

Stream C: Culture and Language

27 credits from the following list:

EDEA 242	(3)	Cultural Skills 1
EDEA 243	(3)	Cultural Skills 2
EDEA 244	(3)	Cultural Skills - Fall
EDEA 245	(3)	Cultural Skills - Winter
EDEA 246	(3)	Cultural Skills - Spring
EDEA 247	(3)	Cultural Skills - Summer
EDEC 263	(3)	Information Communication Technology in Indigenous Literacy
EDEC 342	(3)	Intermediate Indigenous Language
EDEC 344	(3)	Advanced Indigenous Language
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 245	(3)	Orientation to Education
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 270	(3)	Elementary School Science
EDEE 283	(3)	Social Studies Pedagogy
EDEE 332	(3)	Teaching Elementary Mathematics 2

EDEE 347	(3)	Grammar and Composition 1
EDEE 348	(3)	Grammar and Composition 2
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDEE 355	(3)	Classroom-based Evaluation
EDEE 370	(3)	Traditional Indigenous Life Skills
EDEE 371	(3)	Integrating Indigenous Storytelling and Creative Writing
EDEE 373	(3)	Traditional Healing
EDEE 383	(3)	Oral and Family History
EDKP 241	(3)	Indigenous Physical Activities

5.8.3.1.1 Admission to the Certificate in Education for First Nations and Inuit

Those intending to complete the program offered in cooperation with the Kativik Ilisarniliriniq must be fluent and literate in Inuktitut/Inuinnaqtun. Fluency in Algonquin, Cree, Mi'gmaq, Mohawk, or Naskapi is not a condition for acceptance for applicants from these communities, but is considered an asset. Courses are available in some of these languages for those teaching in immersion classes and other teaching situations where a knowledge of the first language is essential.

An applicant will normally be employed as a teacher or as a classroom assistant, have a valid teaching authorization from the appropriate teaching authority or a community education committee, be recommended by the school principal and an officer of the education authority, be recommended by a local community education committee, and be at least 21 years of age. Younger applicants will be considered for admission if they hold a Grade 12 Secondary School Diploma or a Diploma of Collegial Studies. The right of final decision for acceptance of candidates rests with McGill.

5.8.3.2 Certificate (Cert.) Indigenous Language and Literacy Education (30 credits)

This 30-credit program is designed for Algonquin, Cree, Inuit, Mi'kmaq, and Kanienkehaka (Mohawk) students who wish to g

Education Courses

12 credits from the list below:

EDEA 242	(3)	Cultural Skills 1
EDEC 220	(3)	Curriculum Development
EDEC 403	(3)	The Dialects of Inuktitut
EDEE 223	(3)	Language Arts
EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 345	(3)	Literature and Creative Writing 1
EDEE 346	(3)	Literature and Creative Writing 2
EDEE 347	(3)	Grammar and Composition 1
EDEE 348	(3)	Grammar and Composition 2
EDEE 373	(3)	Traditional Healing
EDEE 383	(3)	Oral and Family History
EDES 365	(3)	Experiences in Communications
EDPE 304	(3)	Measurement and Evaluation

Electives (6 credits)

6 credits of suitable courses approved by the Director of Programs in First Nations and Inuit Education.

5.8.3.2.1 Admission to the Certificate in Indigenous Language and Literacy Education

Students admitted to this program will be recommended by their communities. If the program is used for professional development 0 1 289.4.273 4049.this progbt 8.1 Tf1 0

6 credits in the major subject area of the Bachelor of Education for Certified Teachers selected in consultation with the Director of Programs in First Nations and Inuit Education.

Minor Subject Area (6 credits)

6 credits in the minor subject area of the Bachelor of Education for Certified Teachers selected in consultation with the Director of Programs in First Nations and Inuit Education.

Education Courses (3 credits)

3 credits from the list below or from other courses as approved by the Director of Programs in First Nations and Inuit Education.

EDEA 241	(3)	Basic Art Media for Classroom
EDEC 220	(3)	Curriculum Development
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 591	(3)	Cultural Values and Socialization
EDEE 444	(3)	First Nations and Inuit Curriculum
EDKP 241	(3)	Indigenous Physical Activities
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDSL 247	(3)	Second Language Education in Indigenous Communities
EDSL 305	(3)	L2 Learning: Classroom Settings

5.8.3.3.1 Admission to the Certificate in Middle School Education in Indigenous Communities

Applicants will normally have completed or be completing their B.Ed. for Certified Teachers. It is strongly recommended that they have some competence in their Indigenous language as indicated by the successful completion of at least two language courses. For those applying with degrees from other universities, additional courses may be required to match the McGill B.Ed. for Certified Teachers profile. As the program and courses will be delivered in the partnership communities, applicants must be recommended by their school boards or teaching authorities. The right of final decision for acceptance of candidates rests with McGill.

5.8.3.4 Certificate (Cert.) First Nations and Inuit Educational Leadership (30 credits)

The 30 credit Certificate in First Nations and Inuit Educational Leadership will focus on the following 5 objectives: (1) developing the core competencies of educational leaders; (2) fostering a self-reflective leader able to partner with parents to create community outreach; (3) cultivating awareness of the holistic learning and developmental cycles of the child and the role of the educational leader in enhancing that development; (4) maintaining the inter-connectedness and continuity of community and cultural values and aspirations within the structure of the administration of the school and other educational milieu; and (5) understanding and supporting the pedagogical objectives and the administrative framework of the educational context and system.

Required Courses (18 credits)

EDEC 203	(3)	Communication in Education
EDEC 222	(3)	Personnel Management and Group Skills
EDEC 311	(6)	Resource Management
EDEC 312	(3)	Practicum in Educational Leadership Indigenous F

5.8.3.4.1 Admission to the Certificate in First Nations and Inuit Educational Leadership

Students admitted to this program will be recommended by their communities. They must be mature students (21 years of age), or hold a Secondary V diploma or equivalent. Students must speak, read, and write fluently the language of instruction as agreed upon between the unit and the Indigenous School Board or Education Centre. For Nunavik applicants, students must have experience in a Nunavik educational or community organization. The right of final decision for acceptance of candidates rests with McGill.

5.8.3.5 Bachelor of Education for Certified Teachers - Elementary Education: Indigenous Education (90 credits)

This 90-credit program is designed for teachers who are already certified to teach in elementary schools and who wish to earn a Bachelor of Education degree. Normally, a minimum of 60 credits must be taken in the program, and no more than 30 credits may be transferred from other institutions. Credits may be transferred from programs leading to the certificates in Educational Technology, Second Language Teaching, Inclusive Education, or Indigenous Language and Literacy Education taken concurrently. Credit may also be transferred from the Certificate in Education for First Nations and Inuit, which is normally completed before the B.Ed. Students completing the Bachelor of Education for Certified Teachers following the Certificate in Education for First Nations and Inuit will have accumulated a total of 120 credits, 60 for the certificate and a further 60 for the B.Ed.

The Certificate in Indigenous Language and Literacy Education, the Certificate in Middle School Education in Indigenous Communities, or the Certificate in First Nations and Inuit Educational Leadership may be taken concurrently and completed within the Bachelor of Education for Certified Teachers if the required B.Ed. profile is fulfilled.

This program does not lead to further certification.

Complementary Courses

Candidates enrolled in the program complete 90 credits within the following general pattern.

Academic Concentration (30 credits)

30 credits in five (5) subject areas relevant to elementary education in a 12-9-3-3-3 pattern (i.e., 12 credits in one subject, 9 credits in a second subject, and 3 credits in each of three (3) other subject areas), or 30 academic credits in three subject areas in a 15-9-6 pattern.

Note: Subject areas relevant to elementary education, in broad terms, are the Arts (Art, Music and Drama), English, French, Science, Mathematics, Physical

Graduate Program Director

Lindsay Duncan

Emeritus Professor

Greg Reid; B.Ed.(McG.), M.S.(Calif.), Ph.D.(Penn. St.)

Professors

Ross E. Andersen; B.Ed., M.A.(McG.), Ph.D.(Temple)

Gordon Bloom; B.Ed.(UWO), M.A.(York), Ph.D.(Ott.)

Theodore E. Milner; B.Sc., M.Sc., Ph.D.(Alta.)

Dilson Rassier; B.P.E.(UFPeI, Brazil), M.Sc.(UFRGS), Ph.D.(Calg.)

Associate Professors

Julie Côté; B.Sc., M.Sc.(Wisc. Madison), Ph.D.(Montr.)

Lindsay Duncan; B.A., M.A., Ph.D.(UWO)

William Harvey; B.Ed., M.A., Ph.D.(McG.)

Dennis Jensen; B.P.E.(Brock), M.Sc., Ph.D.(Qu.)

David J. Pearsall; B.A., B.P.H.E., M.Sc., Ph.D.(Qu.)

Shane Sweet; B.A., Ph.D.(Ott.)

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)

Faculty Lecturer

Jessica Mocella; B.A.(C'dia); B.A.(McG.)

Celena Scheede-Bergdahl; B.Sc.(C'dia), M.Sc.(Montr.), Ph.D.(Copen.)

Associate Members

Susan Bartlett; B.A.(C'dia), M.Ed.(McG.), Ph.D.(Syrac.)

José Morais; M.D.(Montr.)

Shawn Robbins; M.Sc., Ph.D.(UWO)

Timothy H. Wideman; Ph.D.(McG.)

5.8.4.4 Bachelor of Education (B.Ed.) - Physical and Health Education (120 credits)

The Bachelor of Education (B.Ed.) - Physical and Health Education is a 120-credit program leading to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credit program) for a total of 150 credits.

The Ph; B.A.(C'dia), M.Ed.(McG.Syrac.)C'dia), M.Ed.(Mch.Syrec.)Mce.528 375.44 2m(658be05h.D.(Uxp1 1)

Freshman Program

Freshman students are required to complete 30 credits of introductory (100- or 200-level) courses. Students will not be granted permission to take first-year (U1) courses if the credits from the Freshman year have not been obtained. For students considering a second teachable subject, the following areas are

5.8.4.6 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology (90 credits)

The B.Sc.(Kinesiology) is a 90-credit program. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a four-year B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

The focus of the Kinesiology program is a comprehensive understanding of human movement. Kinesiology is a multidisciplinary field viewing human movement from social, historical, psychological, or biological perspectives. The program provides students with a breadth of theoretical knowledge as well as an opportunity to explore related areas in greater depth, including minor programs available elsewhere within the University.

An Honours program is available for particularly strong students. To qualify for the Honours program, students must obtain a CGPA of 3.3 after two years in Kinesiology and must retain this CGPA until graduation.

Graduation Requirement:

Prior to graduation, students are required to show proof of certification in Standard Level Safety Oriented First Aid/Level C in Cardiopulmonary Resuscitation, or equivalencies.

Freshman Program

29-30 credits of basic science courses depending on the Fall term MATH course selected.

Students admitted from CEGEP or with other Advanced Standing should have equivalencies for these courses to be exempt from Freshman program requirements.

Fall term BIOL and CHEM courses:

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1

In consultation with a program adviser, one of the following Fall term MATH courses:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

In consultation with a program adviser, one of the following Fall term PHYS courses:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Winter term BIOL and CHEM courses:

BIOL 112	(3)	Cell and Molecular Biology
CHEM 120	(4)	General Chemistry 2

One of the following Winter term MATH courses:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

One of the following Winter term PHYS courses:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Required Courses (51 credits)

ANAT 315	(3)	Clinical Human Musculoskeletal Anatomy
ANAT 316	(3)	Clinical Human Visceral Anatomy
EDKP 206	(3)	Biomechanics of Human Movement
EDKP 215	(0)	Standard First Aid/Cardio-Pulmonary Resuscitation Level C
EDKP 250	(3)	Introductory Principles in Applied Kinesiology
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness
EDKP 330	(3)	Physical Activity and Public Health
EDKP 350	(3)	Physical Fitness Evaluation Methods
EDKP 395	(3)	Exercise Physiology
EDKP 396	(3)	Adapted Physical Activity
EDKP 443	(3)	Research Methods
EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 450	(3)	Advanced Principles in Applied Kinesiology
EDKP 498	(3)	Sport Psychology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (15-24 credits)

3 credits from Statistics:

BIOL 373	(3)	Biometry
EDPE 375	(3)	Introductory Statistics
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

3 credits from Psychosocial:

EDKP 394	(3)	Historical Perspectives
EDKP 405	(3)	Sport in Society
EDKP 548	(3)	Applied Exercise Psychology

0-6 credits from Internships/Practicums:

EDKP 301	(3)	Kinesiology Internship 1
EDKP 302	(3)	Kinesiology Clinic Internship 1
EDKP 401	(3)	Kinesiology Internship 2
EDKP 402	(3)	Kinesiology Clinic Internship 2
EDKP 451	(3)	Personal Trainer Practicum
EDKP 453	(3)	Research Practicum in Kinesiology

3 credits from Biomechanics/Motor Learning:

EDKP 444	(3)	Ergonomics
EDKP 446	(3)	Physical Activity and Ageing Advanced Biomechanics Ageing

15 credits selected as described below.

3 credits of Statistics from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

12 credits from:

BIOC 311	(3)	Metabolic Biochemistry
EDKP 301	(3)	Kinesiology Internship 1
EDKP 311	(3)	Athletic Injuries
EDKP 394	(3)	Historical Perspectives
EDKP 401	(3)	Kinesiology Internship 2
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology
EDKP 453	(3)	Research Practicum in Kinesiology
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 548	(3)	Applied Exercise Psychology
EDKP 566	(3)	Advanced Biomechanics Theory
NUTR 344	(4)	Clinical Nutrition 1
NUTR 503	(3)	Nutrition and Exercise
PHGY 314	(3)	Integrative Neuroscience
POTH 434	(3)	Musculoskeletal Biomechanics
PSYC 471	(3)	Human Motivation

Elective Courses (2 credits)

To be chosen in consultation with the Program Director or Student Adviser.

6 Faculty of Engineering

6.1 About the Faculty of Engineering

The Faculty currently includes six engineering departments and two schools, and houses three institutes:

Departments

Bioengineering

Chemical Engineering

Civil Engineering

Electrical and Computer Engineering

Departments

Mechanical Engineering

Mining and Materials Engineering

Schools

The Peter Guo-hua Fu School of Architecture

Urban Planning

Institutes

Trottier Institute for Sustainability in Engineering and Design (TISED) (Website: mcgill.ca/tised)

McGill Institute for Advanced Materials (MIAM) (Website: mcgill.ca/miam) (established by the Faculties of Engineering and Science)

McGill Institute for Aerospace Engineering (MIAE) (Website: mcgill.ca/miae)

The Faculty serves approximately 3,300 undergraduate students and 1,300 graduate students in a wide variety of academic programs.

Undergraduate programs leading to professional bachelor's degrees are offered in all Engineering departments. These programs are designed to qualify graduates for immediate employment in a wide range of industries and for membership in the appropriate professional bodies. Additionally, a non-professional undergraduate degree is offered in the School of Architecture for those who plan to work in related fields not requiring professional qualification.

The curricula are structured to provide suitable preparation for those who plan to continue their education in postgraduate studies either at McGill or elsewhere. The professional degrees in Architecture and Urban Planning are offered at the master's level and are described at [Faculty of Engineering > Graduate](#).

The academic programs are divided into required and complementary sections. The required courses emphasize basic principles which permit graduates to keep abreast of progress in technology throughout their careers. Exposure to current technology is provided by the wide variety of complementary courses which allow students to pursue a particular interest in depth. For program details and requirements, refer to [section 6.12: Browse Academic Units & Programs](#).

The **Engineering Internship Program** provides engineering students with the opportunity to participate in four-, eight-, twelve-, or sixteen-month paid work experiences. Details can be found at mcgill.ca/careers4engineers/engineering-internship-program/students. In addition, co-op programs are offered in Mining Engineering and in Materials Engineering.

Graduate and postgraduate programs leading to master's and doctoral degrees are offered in all sectors of the Faculty. Numerous areas of specialization are available in each of the departments and schools. All postgraduate programs, including the professional degree programs in Architecture and in Urban Planning, are described at [Faculty of Engineering > Graduate](#).

6.2 History of the Faculty

The Faculty of Engineering began in 1871 as the Department of Practical and Applied Science in the Faculty of Arts with degree programs in Civil Engineering and Surveying; Mining Engineering and Assaying; and Practical Chemistry. Diploma courses had been offered from 1859, and by 1871 the staff and enrolments had increased sufficiently to justify the creation of the Department. Continued gro

Tempor

- To provide a stimulating environment for teaching, learning, and research

In this section, you will find up-to-date information about the Faculty and about the undergraduate programs and courses it offers. For information about graduate studies in the Faculty of Engineering, see [Faculty of Engineering > Graduate](#).

You will find information on the following topics (and others):

- [section 6.1: About the Faculty of Engineering](#)
- [section 6.2: History of the Faculty](#)
- [section 6.3: Engineering Microcomputing Facility](#)
- [section 6.4: Schulich Library of Physical Sciences, Life Sciences, and Engineering](#)
- [section 6.6: Degrees and Requirements for Professional Registration](#)
- [section 6.9: Student Activities](#)
- [section 6.11: Engineering Internship Program \(EIP\)](#)
- Under

6.6 Degrees and Requirements for Professional Registration

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Co-op Programs

Materials Engineering (B.Eng.)
Mining Engineering (B.Eng.)
Software Engineering (B.Eng.)

Major Programs

Architecture (B.Sc.(Arch.))
Bioengineering (B.Eng.)
Chemical Engineering (B.Eng.)
Civil Engineering (B.Eng.)
Computer Engineering (B.Eng.)
Electrical Engineering (B.Eng.)
Materials Engineering (B.Eng.)
Mechanical Engineering (B.Eng.)
Mining Engineering (B.Eng.)

Honours Programs

Electrical Engineering (B.Eng.)
Mechanical Engineering (B.Eng.)

Minors

Aerospace Engineering
Applied Artificial Intelligence
Arts
Biomedical Engineering
Biotechnology
Chemistry
Computer Science
Construction Engineering and Management
Economics
Environment
Environmental Engineering
Management Minors: Minor in Finance, Minor in Management, Minor in Marketing, Minor in Operations Management
Materials Engineering
Mathematics
Mining Engineering
Musical Science and Technology
Nanotechnology
Physics
Software Engineering
Technological Entrepreneurship

6.11 Engineering Internship Program

Employers value experience. Internships (four, eight, twelve, or sixteen months) allow you to gain professional work experience during the course of your undergraduate studies while earning a salary within the average range for entry-level professional positions. Other benefits include the following:

- Improved employment prospects upon graduation, often at a higher starting salary
- The opportunity to explore career options prior to graduation
- The opportunity to develop communication and technical skills and to acquire a business perspective that cannot be learned in school

An internship may begin in January, May, or September. Employers choose the most suitable students for their organization through an application and interview process. While employed by the participating companies, you work on assignments related to your field of study

Vision

To advance professional architectural education that flourishes through research, critical practice, and community engagement.

Mission

The Peter Guo-hua Fu School of Architecture educates professionals who contribute to the global community through the design, construction, and interpretation of the built environment. The School:

- encourages a diverse environment for teaching, learning, and research, supported by both traditional and state-of-the-art digital resources;
- develops professional and post-professional research-based Masters and Ph.D. programs that enable graduates to contribute responsibly to the profession, to research, and to careers in related fields;
- enriches multidisciplinary teaching and research within the University and in connection with other local and international universities;
- engages citizens' groups, local, provincial, and national governments, the private sector, and the profession toward the improvement of the built environment.

6.12.1.3 Architectural Certification in Canada

In Canada, all provincial/territorial associations/institutes/orders recommend a degree from an accredited professional degree program as a prerequisite for licensure. The Canadian Architectural Certification Board (CACB), which is the sole agency authorized to accredit Canadian professional degree programs in architecture, recognizes two types of accredited degrees: the **Master of Architecture (M.Arch.)**, and the **Bachelor of Architecture (B.Arch.)**. A program may be granted a two-year, three-year, or six-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The M.Arch. (Professional) degree is accredited by the Canadian Architectural Certification Board (CACB), and is recognized as accredited by the National Council of Architectural Registration Boards (NCARB) in the United States.

6.12.1.4 Programs of Study

Students in the B.Sc.(Arch.) program who intend to proceed to the professional degree must satisfy certain minimum requirements. Students must:

- complete the B.Sc.(Arch.) degree, including the series of required and complementary courses stipulated for professional studies, with a minimum CGPA of 3.00. Please note that the minimum CGPA requirement does not guarantee entry into M.Arch program;
- submit a portfolio of work executed in the sequence of six design studios, as well as samples of professional and personal work;
- complete the minimum period of relevant work experience according to the current Work Experience Guidelines (see <http://www.mcgill.ca/architecture/programs/professional/workexperience>).

Further information on the M.Arch. (Professional) program and application procedures is available at mcgill.ca/architecture/programs/professional/prospective-students/application-pr

Collections

Architecture Slide Library – Professor Annmarie Adams

The John Bland Canadian Architecture Collection, housed in the Blackader-Lauterman Library – Ann Marie Holland, Liaison Librarian

Orson Wheeler Architectural Model Collection – Professor Pieter Sijpkens

6.12.1.6 Architecture Faculty

Director

David Theodore

Undergraduate Program Director

David Covo

Graduate Program Director

Ipek Tureli

Emeritus Professors

Bruce Anderson; B.Arch.(McG.), M.Arch.(Harv.), F.R.A.I.C., O.A.Q.

Vikram Bhatt; N.Dip.Arch.(Ahmed.), M.Arch.(McG.), M.R.A.I.C.

Derek Drummond; B.Arch.(McG.), F.R.A.I.C., O.A.Q., O.A.A. (*William C. Macdonald Emeritus Professor of 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*)

Adrian Sheppard; B.Arch.(McG.), M.Arch.(Yale), A.A.P.P.Q., F.R.A.I.C., O.A.Q.

Radoslav Zuk; B.Arch.(McG.), M.Arch.(MIT), D.Sc.(UAA), F.R.A.I.C., O.A.Q., O.A.A.

Associate Professors (Post-Retirement)

Ricardo L. Castro; B.Arch.(Los Andes, Col.), M.Arch., M.A.(Ore.), F.R.A.I.C., R.C.A.

Robert Mellin; B.Arch., M.Sc.(Arch.)(U Penn), M.Arch.(McG.), Ph.D.(U Penn), N.L.A.A., F.R.A.I.C., R.C.A.

Pieter Sijpkens; B.Sc.(Arch), B.Arch.(McG.)

Professors

Annmarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.), M.R.A.I.C. (*Stevenson Chair in the History and Philosophy of Science*)

Martin Bressani; B.Sc.(Arch.), B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur(Paris IV), O.A.Q. (*William C. Macdonald Professor of Architecture*)

Avi Friedman; B.Arch.(Technion), M.Arch.(McG.), Ph.D.(Montr.), O.A.Q., I.A.A.

Kiel Moe; B.Arch.(Cinc.), M.Arch.(Virg.), M.Des.(Harv.) (*Gerald Sheff Chair in Architecture*)

Associate Professors

David Covo; B.Sc.(Arch.), B.Arch.(McG.), F.R.A.I.C., O.A.Q.

Rosetta S. Elkin; B.F.A.(Concordia), M.L.A.(Toronto), Ph.D.(Antwerp) F.A.A.R.

Michael Jemtrud; B.A., B.Sc., B.Arch.(Penn. St.), M.Arch.(McG.), M.R.A.I.C.

Nik Luka; B.A.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.), M.C.I.P.

David Theodore; B.A., B.Sc.(Arch.), B.Arch., M.Arch.(McG.), Ph.D.(Harv.) (*Canadian Research Chair in Architecture, Health, and Computation*)

Ipek Tureli; B.Arch.(ITU, Turkey), A.A.Dipl.(A.A.), Ph.D.(Calif., Berk.) (*Canada Research Chair in Architecture and Spatial Justice*)

Assistant Professors

Salmaan Craig; B.Sc., Eng.D.(Brunel)c7Eng.D.4 1711 11um6 914R.P

Professors of Practice

Howard Davies
 Peter Guo-hua Fu
 Julia Gersovitz
 Andrew King

Adjunct Professors

Conor Sampson

Course Lecturers

Vedanta Balbahadur, Evelyne Bouchard, Morgan Carter, Diana Cheng, Mariel Collard, Cameron Cummings, Aniel Guxholli, Nancy Dunton, Tom Egli, Fabrizio Gallanti, Marc Hallé, Olga Karpova, Daniela Leon, Sybil McKenna, Hubert Pelletier, Marc-André Plourde, Lia Ruccolo, François Sabourin, Angela Silver, Tyler Swingle, Dustin Valen.

6.12.1.7 Bachelor of Science (B.Sc.) (Architecture) - Architecture (126 credits)

Program credit weight: 126 credits

Program credit weight for CEGEP students: 100 credits

The B.Sc.(Arch.) program provides conceptual, technical, and procedural foundations for the professional M.Arch. program, which is accredited by the Canadian Architectural Certification Board and recognized as accredited by the National Council of Architectural Registration Boards in the US. Students entering the B.Sc.(Arch.) program complete first-year courses in general studies (including sciences, humanities, and social sciences), for which individuals entering with the Québec Diploma of Collegial Studies in Arts and Science or Pure and Applied Science (or equivalent) are generally granted transfer credits. All students then complete six terms of immersion in architecture, centered in studio courses exploring principles of design, norms of representation, cultures of construction, and the human experience of architecture. Studio-based learning is complemented by lecture courses on foundational knowledge. Complementary courses provide further opportunities to learn about how culture intersects with technology in the work of architecture, and students select electives to customize their learning experience.

Required Year 0 (Freshman) Courses

26 credits

Generally, students admitted to the Architecture program from Quebec CEGEPs are granted transfer credit for the Year 0 (Freshman) courses and enter a 100-credit (six-term) program.

Course choices must be made through consultation with the Student Adviser for the Professional Programs.

All Year 0 students must successfully complete 10 credits from the following:

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus I
PHYS 131	(4)	Mechanics and Waves

All Year 0 students must also successfully complete 16 credits as follows:

3 credits from among any 100- or 200-level courses with the subject codes of ATOC (Atmospheric and Oceanic Sciences), COMP (Computer Science), ENVR (Environment), and EPSC (Earth and Planetary Sciences).

13 credits from among any 100- or 200-level courses with the subject codes of AFRI (African Studies), ANTH (Anthropology), ARTH (Art History), CANS (Canadian Studies), CATH (Catholic Studies), CLAS (Classics), COMS (Communication Studies), EAST (East Asian Studies), ECON (Economics), ENGL (English), FREN (French), GEOG (Geography), GSFS (Gender, Sexuality, Feminist, and Social Justice), GERM (German), HISP (Hispanic Studies), HIST (History), INDG (Indigenous Studies), ISLA (Islamic Studies), ITAL (Italian), JWST (Jewish Studies), LING (Linguistics), LLCU (Languages, Literatures, and Cultures), MUAR (Music - Arts Faculty), PHIL (Philosophy), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), RUSS (Russian), SOCI (Sociology).

Required Courses (88 credits)

Non-Departmental

FACC 220	(3)	Law for Architects and Engineers
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Architectural Courses

Note: ARCH 250 and ARCH 378 should be taken in the first year of studies.

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 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar

Elective Courses (6 credits)

6 credits of elective courses outside the School of Architecture must be completed, subject to approval by the Student Adviser.

6.12.2 Bioengineering

6.12.2.1 Location

McConnell Engineering Building
 Room 350
 3480 University Street
 Montreal QC H3A 0E9
 Telephone: 514-398-3647
 Fax: 514-398-7379
 Email: studentaffairs.bioeng@mcgill.ca
 Website: mcgill.ca/bioengineering

6.12.2.2 About the Department of Bioengineering

The Department of Bioengineering, established in 2012, is the newest academic unit in McGill University's renowned Faculty of Engineering. In Fall 2016, the Department launched a full-time under

Assistant Professors

Codruta Ignea; B.Sc.(USAMVBT), Ph.D.(Crete)

Sara Mahshid; B.Sc.(IUST, Tehran), M.Sc., Ph.D.(SUT, Tehran)

Natalie Reznikov; M.Sc.(Hebrew), Ph.D.(Weizmann)

Caroline Wagner; B.Eng.(McG.), M.Eng., Ph.D.(MIT)

6.12.2.4 Bachelor of Engineering (B.Eng.) - Bioengineering (142 credits)

Program credit weight: 142-152 credits

Program credit weight for Quebec CEGEP students: 122-123 credits

Program credit weight for out-of-province students: 142-143 credits

The B.Eng.; Major in Bioengineering will 1) provide students with the ability to apply systematic knowledge of biology, physical sciences and mathematics; and sound engineering foundations in order to solve problems of a biological nature; and 2) prepare students for the broad area of bioengineering, incorporating both biology-focused biological engineering and medicine-focused biomedical engineering.

Students will acquire fundamental knowledge in bioengineering-related natural sciences and mathematics, as well as in the foundations of general engineering and bioengineering. Students will also acquire knowledge in one area of specialization of bioengineering: 1) biological materials and biomechanics; 2) biomolecular and cellular engineering; or 3) biological information and computation

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credits for Year 0 (Freshman) courses, except BIOL 112, and enter a 122-123-credit program. Students from Quebec CEGEPs who have successfully completed a course at CEGEP that is equivalent to BIOL 112 may obtain transfer credits for this course by passing the McGill Science Placement Exam for BIOL 112. For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see www.mcgill.ca/engineering/student/sao/newstudents and select your term of admission.

BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

35 credits

CCOM 206	(3)	Communication in Engineering
CHEM 212**	(4)	Introductory Organic Chemistry 1
CIVE 281	(3)	Analytical Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 203	(3)	Principles of Statistics 1
MATH 262	(3)	Intermediate Calculus

MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MECH 210	(2)	Mechanics 1
PHYS 319	(3)	Introduction to Biophysics

* Note FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

** Students from a CEGEP background who have completed a CEGEP course equiv

List B:

BIEN 330	(3)	Tissue Engineering and Regenerative Medicine
BIEN 462	(3)	Engineering Principles in Physiological Systems
BIEN 500	(3)	Special Topics in Bioengineering 1
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 515	(3)	Special Topics in Bioengineering 2
BIEN 525	(3)	Special Topics in Bioengineering 3
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 535	(3)	Electron Microscopy and 3D Imaging for Biological Materials
BIEN 545	(3)	Diagnostic Devices at the Point-of-Care
BIEN 550	(3)	Biomolecular Devices
BIEN 580	(3)	Synthetic Biology
BMDE 503	(3)	Biomedical Instrumentation
BMDE 504	(3)	Biomaterials and Bioperformance
BMDE 505	(3)	Cell and Tissue Engineering
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 321	(3)	Mechanics of Deformable Solids
MECH 547	(3)	Mechanics of Biological Materials
MECH 561	(3)	Biomechanics of Musculoskeletal Systems
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 572	(3)	Mechanics and Control of Robotic Manipulators
MIME 470	(3)	Engineering Biomaterials
MIME 473	(3)	Introduction to Computational Materials Design
SEAD 515	(3)	Climate Change Adaptation and Engineering Infrastructure
SEAD 520	(3)	Life Cycle-Based Environmental Footprinting
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SEAD 540	(3)	Industrial Ecology and Systems
SEAD 550	(3)	Decision-Making for Sustainability in Engineering and Design

*Note: Students may choose only one of CHEE 563 and MECH 563 Biofluids and Cardiovascular Mechanics

NOTE: Maximum 6 credits of SEAD courses are allowed.

Stream 2: Biomolecular and Cellular Engineering (24-25 credits)

12 credits from List A

12-13 credits from List B

List A

BIEN 310	(3)	Introduction to Biomolecular Engineering
BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 550	(3)	Biomolecular Devices
BIEN 590	(3)	Cell Culture Engineering

List B

BIEN 330	(3)	Tissue Engineering and Regenerative Medicine
BIEN 410	(3)	Computational Methods in Biomolecular Engineering
BIEN 462	(3)	Engineering Principles in Physiological Systems
BIEN 500	(3)	Special Topics in Bioengineering 1
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 515	(3)	Special Topics in Bioengineering 2
BIEN 525	(3)	Special Topics in Bioengineering 3
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 535	(3)	Electron Microscopy and 3D Imaging for Biological Materials
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BIEN 545	(3)	Diagnostic Devices at the Point-of-Care
BIEN 570	(3)	Active Mechanics in Biology
BIEN 580	(3)	Synthetic Biology
BMDE 503	(3)	Biomedical Instrumentation
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering
CIVE 557	(3)	Microbiology for Environmental Engineering
PHYS 534	(3)	Nanoscience and Nanotechnology
SEAD 510	(4)	Energy Analysis
SEAD 515	(3)	Climate Change Adaptation and Engineering Infrastructure
SEAD 520	(3)	Life Cycle-Based Environmental Footprinting
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SEAD 540	(3)	Industrial Ecology and Systems
SEAD 550	(3)	Decision-Making for Sustainability in Engineering and Design

NOTE: Maximum 6 credits of SEAD courses are allowed.

Stream 3: Biological Information and Computation (24-25 credits)

12 credits from List A

12-13 credits from List B

List A

BIEN 310	(3)	Introduction to Biomolecular Engineering
BIEN 410	(3)	Computational Methods in Biomolecular Engineering
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 540	(3)	Information Storage and Processing in Biological Systems

List B

BIEN 462	(3)	Engineering Principles in Physiological Systems
BIEN 515	(3)	Special Topics in Bioengineering 2
BIEN 525	(3)	Special Topics in Bioengineering 3
BIEN 535	(3)	Electron Microscopy and 3D Imaging for Biological Materials
BIEN 545	(3)	Diagnostic Devices at the Point-of-Care

BIEN 580	(3)	Synthetic Biology
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
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 462	(3)	Computational Biology Methods
COMP 551	(4)	Applied Machine Learning
ECSE 415	(3)	Introduction to Computer Vision
MATH 240	(3)	Discrete Structures
MECH 513	(3)	Control Systems
MECH 572	(3)	Mechanics and Control of Robotic Manipulators
SEAD 510	(4)	Energy Analysis
SEAD 515	(3)	Climate Change Adaptation and Engineering Infrastructure
SEAD 520	(3)	Life Cycle-Based Environmental Footprinting
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SEAD 540	(3)	Industrial Ecology and Systems
SEAD 550	(3)	Decision-Making for Sustainability in Engineering and Design

NOTE: Students in Stream 3 may only take one of the two 4 credit list B TCs (either COMP 551 or SEAD 510 or another 3 credit list B TC)

NOTE: Maximum 6 credits of SEAD courses are allowed.

Complementary Studies

9 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at www.mcgill.ca/importantdates.

Group B - Humanities and Social Science, Management Studies and Law

Generally, students admitted to Engineering from Quebec CEGEP's are granted transfer credits for 3 credits (one course) from the Complementary Studies Group B list.

6 credits of courses at the 200-level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (e

6.12.3 Chemical Engineering

6.12.3.1 Location

M.H. Wong Building, Room 3060
 3610 University Street
 Montreal QC H3A 0C5
 Telephone: 514-398-4494
 Fax: 514-398-6678
 Email: ugrad.chemeng@mcgill.ca
 Website: mcgill.ca/chemeng

6.12.3.2 About the Department of Chemical Engineering

The central purpose of engineering is to pursue solutions to technological problems in order to satisfy the needs and desires of society. Chemical engineers are trained to solve the kinds of problems that are typically found in the “**chemical process industries**”, which include:

- chemical manufacturing;
- plastics;
- water treatment;
- pulp and paper;
- petroleum refining;
- ceramics; and
- paint industries;

as well as substantial portions of the:

- food processing;
- textile;
- nuclear energy;
- alternative energy;
- biochemical;
- biomedical; and
- pharmaceutical industries.

The technological problems and opportunities in these industries are often closely linked to social, economic, and environmental concerns. For this reason, chemical engineers often deal with these questions while working in management, pollution abatement, product development, marketing, and equipment design.

By means of complementary courses, students can also obtain further depth in technical areas and breadth in non-technical subjects. Some students elect to complete a minor in biotechnology, nanotechnology, management, materials engineering, computer science, environmental engineering, chemistry, or another minor (see [section 6.12.10: Minor Programs](#) for minors available to engineering students).

The solution to many environmental problems requires an understanding of technological principles; a Chemical Engineering degree provides an ideal background. In addition to relevant material learned in the core program, a selection of environmental complementary courses and minor programs is available. The involvement of many Chemical Engineering faculty members in environmental research provides the opportunity for undergraduate students to carry out research projects in this area.

The **B.Eng.** curriculum also provides the preparation necessary to undertake postgraduate studies leading to **M.Eng.**, **M.Sc.**, or **Ph.D.** degrees in Chemical Engineering. Students completing this curriculum acquire a broad, balanced education in the natural sciences with the accent on application. Thus, for those who do not continue in Chemical Engineering, it provides an exceptionally balanced education in applied science. For others, it will form the basis of an educational program that may continue with a variety of studies such as business administration, medicine, or law. Versatility is, therefore, one of the most valuable characteristics of Chemical Engineering program graduates.

6.12.3.3 Academic Programs

The Chemical Engineering program comprises 143 credits (114 credits for those who completed the Quebec CEGEP program in Pure and Applied Sciences).

Students must obtain a grade of C or better in all core courses. For the Department of Chemical Engineering, core courses include all required courses (departmental and non-departmental) as well as technical complementary courses.

6.12.3.4 Canadian Society for Chemical Engineering

The *Chemical Engineering Student Society* has for many years been affiliated with both the *CSChE* (Canadian Society for Chemical Engineering) which is one of the member societies of the Chemical Institute of Canada (CIC) and with the *AIChE* (American Institute of Chemical Engineers). CSChE membership is free for all full-time undergraduate students at McGill. (<https://www.chemist.ca/membership/fees>) CSChE and AIChE members gain access to a range of benefits, including registration rates at the Canadian Chemical Engineering Conference, as well as member rates in the American Chemical Society (ACS) and affiliated events. The student chapter also organizes a series of local social, educational, and sporting events. Recent events have included student-professor banquets, parties, speakers, broomball games, and joint events with the Montreal Section of the CIC (<https://www.cicmontrealsection.ca>), which gives students a chance to network with practicing chemical engineers in the Montreal region.

6.12.3.5 Chemical Engineering Faculty

Chair

Viviane Yargeau

Emeritus Professors

David G. Cooper; B.Sc., Ph.D.(Tor.)

John M. Dealy; B.S.(Kansas), M.S.E., Ph.D.(Mich.), Eng.

Musa R. Kamal; B.S.(Ill.), M.S., Ph.D.(Carn. Mell), Eng.

Richard J. Munz; B.A.Sc.(Wat.), Ph.D.(McG.), Eng.

W.J. Murray Douglas; B.Sc.(Qu.), M.S.E., Ph.D.(Mich.)

Juan H. Vera; Ing.Quim.(UTE, Chile), M.Sc.(Ca91nt 3h2830a8o or

Bac

FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Chemical Engineering Courses

75 credits

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 231	(3)	Data Analysis and Design of Experiments
CHEE 291	(4)	Instrumentation and Measurement 1
CHEE 310	(3)	Physical Chemistry for Engineers
		Fluid Mel08DIcs

CHEE 541	(3)	Electrochemical Engineering
CHEE 543	(3)	Plasma Engineering
CHEE 563+	(3)	Biofluids and Cardiovascular Mechanics
CHEE 582	(3)	Polymer Science and Engineering
CHEE 584	(3)	Polymer Processing
CHEE 585	(3)	Foundations of Soft Matter
CHEE 587	(3)	Chemical Processing: Electronics Industry
CHEE 591	(3)	Environmental Bioremediation
CHEE 593+	(3)	Industrial Water Pollution Control
CIVE 430+	(3)	Water Treatment and Pollution Control
CIVE 521+	(3)	Nanomaterials and the Aquatic Environment
MECH 534+	(3)	Air Pollution Engineering
MECH 563+	(3)	Biofluids and Cardiovascular Mechanics
MIME 515+	(3)	(Bio)material Surface Analysis and Modification

+ Students may choose only one course in each of the following sets:

- CHEE 515 or MIME 515
- CHEE 521 or CIVE 521
- CHEE 563 or MECH 563
- CHEE 593 or CIVE 430

List B

0-6 credits from the following:

BIEN 550	(3)	Biomolecular Devices
BIOT 505*	(3)	Selected Topics in Biotechnology
BREE 325	(3)	Food Process Engineering
BREE 522	(3)	Bio-Based Polymers
CHEE 363**	(2)	Projects Chemical Engineering 1
CHEE 494**	(3)	Research Project and Seminar 1
CHEE 495**	(4)	Research Project and Seminar 2
CHEE 496**	(3)	Environmental Research Project
CIVE 557	(3)	Microbiology for Environmental Engineering
MIME 470	(3)	Engineering Biomaterials
MIME 558	(3)	Engineering Nanomaterials

* BIOT 505 can only be chosen by students taking the Minor in Biotechnology.

** Students may choose only one project course: CHEE 363, CHEE 494, CHEE 495, or CHEE 496.

List C

0-3 credits

The remaining credits, up to a maximum of 3 credits, may be taken from other suitable undergraduate courses in the Faculty of Engineering, with departmental permission.

Complementary Studies

6 credits

INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

6.12.3.6.1 More about B.Eng. Degree in Chemical Engineering

Courses CHEE 06.0cvs Building, Room 22) or R4 acmrtsr ia 0 1 13221.949 725.56 Tm18 335ses CHEE 06.P949 615.52 Tm3.46rses CHEE 06.olymTcc1 0 Tc 16 0 1 1 22

With the aging and deterioration of an already vast infrastructure, maintenance and rehabilitation have become increasingly important roles of the civil engineering professional. Also, in the midst of worldwide concern about the detrimental impact of human activities on the environment, civil engineers are now in the forefront of developing and providing the means for both prevention and remediation of environmental pollution.

Students who wish to extend their knowledge in certain areas beyond the range that the program's complementary courses allow can also take a **minor**. Minors are available in fields such as:

- Arts;
- Economics;
- Management;
- Environmental Engineering;
- Construction Engineering and Management;
- and others.

These require additional credits to be taken from a specified list of topics relating to the chosen field. Further information on the various minors may be found in [section 6.12.10: Minor Programs](#). Details on how minors can be accommodated within the Civil Engineering program will be made available during preregistration counselling.

6.12.4.3 Academic Programs

Considerable freedom exists for students to influence the nature of the program of study which they follow in the Department of Civil Engineering. A variety of advanced **complementary courses** is offered in five main groupings:

- Environmental Engineering;
- Geotechnical and Geoenvironmental Engineering;
- Water Resources and Hydraulic Engineering;
- Structural Engineering;
- Transportation Engineering.

Guidance on the sequence in which required core courses should be taken is provided for students in the form of a sample program which covers the entire period of study. The technical complementary courses selected, usually in the last two terms of the program, will depend upon the student's interests. All students must *meet with their adviser* each term to confirm the courses for which they are registered.

Courses taken in Term 3 or later will depend on a student's interests and ability. Information and advice concerning different possibilities are made available *in the Department* prior to registration. All programs require the approval of a staff adviser. Programs for students transferring into the Department with Advanced Standing will be dependent upon the academic credit previously achieved, and such a program will be established only after consultation with a staff adviser.

6.12.4.4 Civil Engineering Faculty

Chair

Mohamed A. Meguid

Professors

Mohamed A. Me

MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

AND 3 credits selected from the approved list of courses in Humanities and Social Sciences, Management Studies, and Law, listed below under Complementary Studies (Group B).

Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

28 credits

CCOM 206	(3)	Communication in Engineering
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
EPSC 221	(3)	General Geology
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MECH 261	(2)	Measurement Laboratory
MECH 289	(3)	Design Graphics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study. PHYS (Tts)Tj1 0 0 1 221.949 591.834 6742Computenstrn to

CIVE 432

(1)

Technical Paper

Complementary Courses

21 credits

* Students may choose only one of CHEE 521 or CIVE 521.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment Economics of Climate Change

FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

6.12.5 Electrical and Computer Engineering

6.12.5.1 Location

Department of Electrical and Computer Engineering
 Undergraduate Programs Office
 Lorne Trotter Building, Room 2060
 3630 University Street
 Montreal QC H3A 0C6
 Telephone: 514-398-3943
 Email: undergrad.ece@mcgill.ca
 Website: mcgill.ca/ece

6.12.5.2 About the Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers undergraduate degree programs in:

- Electrical Engineering
- Electrical Engineering (Honours)
- Computer Engineering
- Software Engineering Co-op

All programs provide students with a strong background in mathematics, natural sciences, engineering science, engineering design, and complementary studies, in conformity with the requirements of the *Canadian Engineering Accreditation Board* (CEAB).

In addition to technical complementary courses, students in all three programs take general complementary courses in humanities and social sciences and/or management studies and law. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

Electrical and Computer Engineering F

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.

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.

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 William C. Macdonald Chair*) P.Eng. (*Currently on sabbatical*)

Benoit Champagne; B.Eng., M.Eng.(Montr.), Ph.D.(Tor.), P.Eng.

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.), ing. (*Currently on sabbatical*)

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.

Frank Ferrie; B.Eng., Ph.D.(McG.), P.Eng.

Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.) (*James McGill Professor*) P.Eng.

Geza Joos; B.Sc.(C'dia), M.Eng., Ph.D.(McG.) (*CRC Chair*) P.Eng. (*Industrial Chair*). (*Currently on sabbatical*)

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)*)

Associate Professors

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 Dean (Academic Programs)*)

Odile Liboiron-Ladouceur; B.Eng.(McG.), M.Sc., Ph.D.(Col.) (*CRC Tier 2*) P.Eng.

Aditya Mahajan; B.Tech.(Indian IT), M.S., Ph.D.(Mich.), P.Eng.

Muthucumar Maheswaran; B.Sc.(Peradeniya), M.S.E.E., Ph.D.(Purd.) (*joint appt. with School of Computer Science*)

Brett Meyer; B.S.(Wisc. Madison), M.S., Ph.D.(Carn. Mell), P.Eng.

Hannah Michalska; B.Sc., M.Sc.(Warsaw), Ph.D.(Lond.) P.Eng.

Gunter Mussbacher; Ph.D.(Ott.) (*William Dawson Scholar*) P.Eng.

Derek Nowrouzezahrai; B.Sc.(Wat.), M.Sc., Ph.D.(Tor.) (*Endowed Chair*) (*Director of CIM*)

Milica Popovich; B.Sc.(Colo.), M.Sc., Ph.D.(N'western), LL (*Associate Dean (Research & Innovation)*)

Ioannis Psaromiligkos; B.Sc.(Patras), M.Sc., Ph.D.(SUNY, Buffalo), P.Eng.

Assistant Professors

Narges Armanfard; B.Sc.(Shahid), M.Sc.(Tarbiat Mod), Ph.D.(McM.)

Sharmistha Bhadra; B.Sc.(New Br.), M.Sc., Ph.D.(Manit.) (*EIT*)

Amin Emad; B.Sc.(Sharif), M.Sc.(Alta.), Ph.D.(Ill.) (*EIT*)

Hsiu-Chin Lin; M.Sc.(UAlberta) Ph.D.(Edin.) (*Combined appointment with School of Computer Science*)

AJung Moon; B.A.Sc.(W

generally, to our economy. A graduate of this program is exposed to all basic elements of electrical engineering and can function in any of our client industries.

ECSE 307	(4)	Linear Systems and Control
ECSE 308	(4)	Introduction to Communication Systems and Networks Computer Organization

ECSE 430	(3)	Photonic Devices and Systems
ECSE 431	(3)	Introduction to VLSI CAD
ECSE 435	(3)	Mixed-Signal Test Techniques
ECSE 436	(3)	Signal Processing Hardware
ECSE 446	(3)	Realistic Image Synthesis
ECSE 450	(3)	Electromagnetic Compatibility
ECSE 451	(3)	EM Transmission and Radiation
ECSE 460*	(3)	Appareillage électrique (Electrical Power Equipment)
ECSE 463**	(3)	Electric Power Generation
ECSE 464	(3)	Power Systems Analysis
ECSE 465***	(3)	Power Electronic Systems
ECSE 466*	(3)	Réseaux de distribution
ECSE 467*	(3)	Comportement des réseaux électriques Electricité

3 credits from the following:

- | | | |
|----------|-----|----------------------------------|
| ANTH 212 | (3) | Anthropology of Development |
| | (3) | Biotechnology Ethics and Society |

INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Elective Course

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

Enhanced P

ECSE 470

(4)

Electromechanical Systems

Students must also complete ECSE 458 (Capstone Design Project) on a practical project in po

23 credits

CCOM 206	(3)	Communication in Engineering
CIVE 281	(3)	Analytical Mechanics
COMP 250	(3)	Introduction to Computer Science
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MIME 262	(3)	Properties of Materials in Electrical Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Electrical Engineering Courses

61 credits

ECSE 200	(3)	Electric Circuits 1
ECSE 202	(3)	Introduction to Software Development
ECSE 205	(3)	Probability and Statistics for Engineers
ECSE 206	(3)	Introduction to Signals and Systems
ECSE 210	(3)	Electric Circuits 2
ECSE 211	(3)	Design Principles and Methods
ECSE 222	(3)	Digital Logic
ECSE 251	(3)	Electric and Magnetic Fields

3-4 credits (1 course) from List A, List B, or from 500-level ECSE courses

3-4 credits (1 course) from List C or from 500-level ECSE courses

List A: Technical Complementaries with Laboratory Experience

8-12 credits from the following:

ECSE 335	(4)	Microelectronics
ECSE 403	(4)	Control
ECSE 408*	(4)	Communication Systems
ECSE 416	(4)	Telecommunication Networks
ECSE 433	(4)	Physical Basis of Transistor Devices
ECSE 444	(4)	Microprocessors
ECSE 470	(4)	Electromechanical Systems

* ECSE 408 and ECSE 511 cannot both be taken.

List B: T

MATH 247	(3)	Honours Applied Linear Algebra
MATH 249	(3)	Honours Complex Variables
MATH 547	(4)	Stochastic Processes
MATH 560	(4)	Optimization
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 434	(3)	Optics
PHYS 457	(3)	Honours Quantum Physics 2
PHYS 558	(3)	Solid State Physics

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson)

MATH 133

(3)

Linear Algebra and Geometry

(3)(3)

Calculus 1

COMP 445	(3)	Computational Linguistics
COMP 520	(4)	Compiler Design
COMP 550	(3)	Natural Language Processing
COMP 551*	(4)	Applied Machine Learning
COMP 559	(4)	Fundamentals of Computer Animation
COMP 579	(4)	Reinforcement Learning
ECSE 421	(3)	Embedded Systems
ECSE 424	(3)	Human-Computer Interaction
ECSE 500	(3)	Mathematical Foundations of Systems
ECSE 507	(3)	Optimization and Optimal Control
ECSE 509	(3)	Probability and Random Signals 2
ECSE 521	(3)	Digital Communications 1
ECSE 526**	(3)	Artificial Intelligence
ECSE 532	(4)	Computer Graphics
MATH 247	(3)	Honours Applied Linear Algebra

* ECSE 551 and COMP 551 cannot both be taken.

** COMP 424 and ECSE 526 cannot both be taken.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses hav

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from one the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers

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ECSE 205	(3)	Probability and Statistics for Engineers
ECSE 211	(3)	Design Principles and Methods
ECSE 222	(3)	Digital Logic
ECSE 223	(3)	Model-Based Programming
ECSE 310	(3)	Thermodynamics of Computing
ECSE 316	(3)	Signals and Networks
ECSE 321	(3)	Introduction to Software Engineering
ECSE 324	(4)	Computer Organization
ECSE 326	(3)	Software Requirements Engineering
ECSE 420	(3)	Parallel Computing
ECSE 427	(3)	Operating Systems
ECSE 428	(3)	Software Engineering Practice
ECSE 429	(3)	Software Validation
ECSE 458D1	(3)	Capstone Design Project
ECSE 458D2	(3)	Capstone Design Project

Note: ECSE 458N1 and ECSE 458N2 can be taken instead of ECSE 458D1 and ECSE 458D2.

Complementary Courses

12-18 credits

Technical Complementaries

12-16 credits (4 courses) must be taken, chosen as follows:

3-4 credits (1 course) from List A

9-12 credits (3 courses) from List A or List B

* COMP 350 and ECSE 343 cannot both be taken

** ECSE 551 and COMP 551 cannot both be taken

*** COMP 424 and ECSE 526 cannot both be taken

List A

3-4 credits from the following:

ECSE 325	(3)	Digital Systems
ECSE 343*	(3)	Numerical Methods in Engineering
ECSE 415	(3)	Introduction to Computer Vision
ECSE 416	(4)	Telecommunication Networks
ECSE 422	(3)	Fault Tolerant Computing
ECSE 425	(3)	Computer Architecture
ECSE 437	(3)	Software Delivery
ECSE 439	(3)	Software Language Engineering
ECSE 444	(4)	Microprocessors
ECSE 446	(3)	Realistic Image Synthesis
ECSE 544	(4)	Computational Photography
ECSE 551**	(4)	Machine Learning for Engineers
ECSE 552	(4)	Deep Learning

List B

9-12 credits from the following:

COMP 330	(3)	Theory of Computation
COMP 350*	(3)	Numerical Computing
COMP 409	(3)	Concurrent Programming
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424***	(3)	Artificial Intelligence
COMP 445	(3)	Computational Linguistics
COMP 512	(4)	Distributed Systems
COMP 520	(4)	Compiler Design
COMP 521	(4)	Modern Computer Games

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PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences,

Elective Course (3 credits)

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

6.12.6 Mechanical Engineering

6.12.6.1 Location

Macdonald Engineering Building, Room 270
 817 Sherbrooke Street West
 Montreal QC H3A 0C3
 Telephone: 514-398-6296
 Fax: 514-398-7365
 Email: ugrad.mecheng@mcgill.ca
 Website: mcgill.ca/mecheng

6.12.6.2 About the Department of Mechanical Engineering

Mechanical engineers are involved in the conception, design, implementation, and operation of mechanical systems. Typical application areas include aerospace, energy, manufacturing, machinery, and transportation. Because of the very broad nature of the discipline, there is a high demand for mechanical engineers.

Many mechanical engineers follow other career paths, including sales, finance, and management. Graduate studies are useful for the specialists working in research establishments, consulting firms, or in corporate research and development.

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

The Honours program has a greater emphasis on research and prepares students for future graduate studies. A Minor in **Aerospace Engineering** and a Concentration in **Design** are available for students in either the regular or Honours program who wish to specialize in these areas.

While the program is demanding, there is time for many extracurricular activities. Many students participate in extra-curricular design teams, such as Aerospace Design, Formula Electric, Racing, Rocketry, and Robotics. Student associations, including the McGill Association of Mechanical Engineers (MAME) and the Engineering Undergraduate Society (EUS), allow students to shape their community.

Relations between faculty and students are extremely close. Social functions, at which students and professors meet to exchange views and get to know each other, are organized frequently.

6.12.6.3 Mechanical Engineering Faculty

Chair

Rosaire Mongrain

Associate Chair (Curriculum Affairs)

Arun Misra

Associate Chair (Undergraduate Affairs)

Mathias Legrand

Associate Chair (Graduate Affairs)

Meyer Nahon

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.)

ECSE 461	(3)	Electric Machinery
FACC 100	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 271	(3)	Linear Algebra and Partial Differential Equations
MIME 260	(3)	Materials Science and Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mechanical Engineering Courses

65 credits

MECH 201	(2)	Introduction to Mechanical Engineering
MECH 210	(2)	Mechanics 1
MECH 220	(4)	Mechanics 2
MECH 240	(3)	Thermodynamics 1
MECH 262	(3)	Statistics and Measurement Laboratory
MECH 290	(3)	Design Graphics for Mechanical Engineering
MECH 292	(3)	Design 1: Conceptual Design
MECH 309	(3)	Numerical Methods in Mechanical Engineering
MECH 314	(3)	Dynamics of Mechanisms
MECH 315	(4)	Mechanics 3
MECH 321	(3)	Mechanics of Deformable Solids
MECH 331	(3)	Fluid Mechanics 1
MECH 341	(3)	Thermodynamics 2
MECH 346	(3)	Heat Transfer
MECH 360	(3)	Principles of Manufacturing
MECH 362	(2)	Mechanical Laboratory 1
MECH 383	(3)	Applied Electronics and Instrumentation
MECH 393	(3)	Design 2: Machine Element Design
MECH 412	(3)	System Dynamics and Control
MECH 430	(3)	Fluid Mechanics 2
MECH 463D1	(3)	Design 3: Mechanical Engineering Project
MECH 463D2	(3)	Design 3: Mechanical Engineering Project

Technical Complementary Courses

9 credits

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
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MECH 497	(3)	Value Engineering
MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2
MECH 513	(3)	Control Systems
MECH 530	(3)	Mechanics of Composite Materials
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aerospace Structures
MECH 541	(3)	Kinematic Synthesis
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 553	(3)	Design and Manufacture of Microdevices
MECH 557	(3)	Mechatronic Design
MECH 559	(3)	Engineering Systems Optimization
MECH 560	(3)	Eco-design and Product Life Cycle Assessment
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 573	(3)	Mechanics of Robotic Systems
MECH 577	(3)	Optimum Design

* Students select either CHEE 563 or MECH 563.

3 credits chosen from courses at the 300 level or higher (approved by the Department) in the Faculty of Engineering (including MECH courses) or from courses in the Faculty of Science, including MATH courses.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227, and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Typical Program of Study

Students entering the program from CEGEP follow a different course of study from those entering from out of province. Students will be advised by the Department as to which courses they should select from the course lists above.

For a detailed curriculum, see <http://www.mcgill.ca/mecheng/undergrad/curriculum>.

For all minors and concentrations, students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the minor or concentration.

6.12.6.5 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering (142 credits)

Program credit weight: 142 credits

Program credit weight for Quebec CEGEP students: 113 credits

Program credit weight for out-of-province students: 142 credits

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design Engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

The Honours program is particularly suitable for those with a high aptitude in mathematics and physics and gives a thorough grounding in the basic engineering sciences.

Special interests are satisfied by selecting appropriate complementary courses from among those offered with a specific subject concentration, such as management, industrial engineering, computer science, controls and robotics, bio-engineering, aeronautics, combustion, systems engineering, etc.

Required Year 0 (Freshman) Courses

Required Mechanical Engineering Courses

62 credits

MECH 201	(2)	Introduction to Mechanical Engineering
MECH 210	(2)	Mechanics 1
MECH 220	(4)	Mechanics 2
MECH 240	(3)	Thermodynamics 1
MECH 262	(3)	Statistics and Measurement Laboratory
MECH 290	(3)	Design Graphics for Mechanical Engineering
MECH 292	(3)	Design 1: Conceptual Design
MECH 309	(3)	Numerical Methods in Mechanical Engineering
MECH 321	(3)	Mechanics of Deformable Solids
MECH 331	(3)	Fluid Mechanics 1
MECH 341	(3)	Thermodynamics 2
MECH 346	(3)	Heat Transfer
MECH 360	(3)	Principles of Manufacturing
MECH 362	(2)	Mechanical Laboratory 1
MECH 383	(3)	Applied Electronics and Instrumentation
MECH 403D1	(3)	Thesis (Honours)
MECH 403D2	(3)	Thesis (Honours)
MECH 404	(3)	Honours Thesis 2
MECH 419	(4)	Advanced Mechanics of Systems
MECH 430	(3)	Fluid Mechanics 2
MECH 494	(3)	Honours Design Project

Technical Complementar

MECH 579* (3) Multidisciplinary Design Optimization

* Note: Students select either MECH 577 or MECH 579

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 497	(3)	Value Engineering
MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2
MECH 513	(3)	Control Systems
MECH 530	(3)	Mechanics of Composite Materials
MECH 532	(3)	Aircraft Performance, Stability and Control

PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B: Humanities and Social Sciences, Management Studies and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, b)

9-10 credits from the following:

ARCH 515	(3)	Sustainable Design
CHEE 453	(4)	Process Design
MECH 497	(3)	Value Engineering
MECH 528	(3)	Product Design
MECH 530	(3)	Mechanics of Composite Materials
MECH 541	(3)	Kinematic Synthesis
MECH 543	(3)	Design with Composite Materials
MECH 557	(3)	Mechatronic Design
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 577	(3)	Optimum Design
MECH 579	(3)	Multidisciplinary Design Optimization

6.12.7 Mining and Materials Engineering

6.12.7.1 Location

General Office:

Wong Building, Room 2140
3610 University Street
Montreal QC H3A 0C5
Website: mcgill.ca/minmat

Materials:

Wong Building, Room 2140
3610 University Street
Montreal QC H3A 0C5
Telephone: 514-398-1040
Fax: 514-398-4492
Email: coordinator.minmat@mcgill.ca
Website: mcgill.ca/materials

Mining:

Frank Dawson Adams Building, Room 125
3450 University Street
Montreal QC H3A 0E8
Telephone: 514-398-2215
Fax: 514-398-7099
Email: admin.mining@mcgill.ca
Website: mcgill.ca/mining

6.12.7.2 About the Department of Mining and Materials Engineering

The Department of Mining and Materials Engineering offers programs leading to the Bachelor of rtm0 0 1r1493 279.481 Tmu e 1 81.693 257.041 Tm(F)Tj1 0 inEngin

6.12.7.2.1 Scholarships

The Department offers renewable Entrance Scholarships every year.

Students in the Co-op program benefit from practical learning experience gained from work-term employment in meaningful engineering jobs, as well as non-tangible learning experiences arising from the responsibilities required to obtain and successfully complete the work terms.

Regarding the Co-op **program fees**, an amount of \$241.97 will be billed during ten consecutive terms for a total amount of \$2,419.70 before graduation. These fees cover expenses directly related to the operation of the Co-op program. Students must register for each of their industrial training courses within the university registration period for returning students or late fees will apply. Before registering for any work term course, students must contact the Co-op in Materials Engineering Liaison Officer for approval.

6.12.7.4.2 Student Advising

Students entering this program must plan their schedule of studies in consultation with one of the departmental advisers. Appointments may be obtained by contacting the Administrative and Student Affairs Coordinator.

For more information, please refer to the [Academic Advising](#) section of our website.

6.12.7.4.3 Bachelor of Engineering (B.Eng.) - Materials Engineering (148 credits)

Program credit weight: 148 credits

Program credit weight for Quebec CEGEP students: 119 credits

Students wanting to study Materials Engineering may only be admitted into the B.Eng.; Co-op in Materials Engineering program. There is no direct admission to the B.Eng.; Materials Engineering program (which does not include the work terms required for the Co-op program). Students can transfer from the B.Eng.; Co-op in Materials Engineering to the B.Eng.; Materials Engineering program once they have met certain requirements and obtained approval from the departmental adviser.

The department offers a Major in Materials Engineering leading to an accredited B.Eng. degree in Materials Engineering. Materials are used to enact every human technology and have shaped key eras in history. Major in Materials Engineering students will have the opportunity to learn the fundamental science and engineering of materials through the materials processing pipeline, including how to enrich mineral-poor ore, how to process the materials into the desired microstructures and compositions, and how to use these materials in various applications (aerospace, electronics, and biological systems). With the choice of technical complementary courses, students have an opportunity to specialize and strengthen key materials technologies or broaden their horizons and take courses from several interdisciplinary areas.

Students entering this program must plan their schedule of studies in consultation with a departmental adviser.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 119-credit program.

F

FACC 100*	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MECH 289	(3)	Design Graphics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Materials Engineering Courses

62 credits

MIME 209	(3)	Mathematical Applications
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URBP 201

(3)

Planning the 21st Century City

* Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New T

MIME 261	(3)	Structure of Materials
MIME 280	(2)	Introduction Training 1
MIME 311	(3)	Modelling and Automatic Control
MIME 317	(3)	Analytical and Characterization Techniques
		Introduct326.m.6s

MIME 560	(3)	Joining Processes
MIME 561	(3)	Advanced Materials Design
MIME 563	(3)	Hot Deformation of Metals
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
MIME 568	(3)	Topics in Advanced Materials
MIME 569	(3)	Electron Beam Analysis of Materials
MIME 570	(3)	Micro- and Nano-Fabrication Fundamentals
MIME 571	(3)	Surface Engineering
MIME 572	(3)	Computational Thermodynamics
MIME 580	(3)	Additive Manufacturing Using Metallic and Ceramic Materials

* Students choose either CHEE 515 or MIME 515, offered in alternate years.

0-3 credits may be taken from courses outside of the Department of Mining and Materials Engineering, with departmental approval.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, 05.1800 I1 0 0 1 70.52 4 183029.ui9.382.00enrolment and

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
		Introduction to Org

6.12.7.5.2 Student Advising

The Department gives priority our academic advising service. Each student in the mining engineering program is assigned an academic adviser at the start of their study at McGill and for the duration of their undergraduate degree. Academic advising program ensures quality and individual guidance to each student in the program. Students will meet with their adviser at least once a year to discuss their progress and interest in exchange with other mining schools or taking a minor in their areas of interest among other things.

For more information, please refer to the [Academic](#)

MIME 329	(2)	Mining Geology
MIME 330	(3)	Mining Geotechnics
MIME 421	(3)	Rock Mechanics
MIME 424	(3)	Underground Mining Methods
MIME 428	(3)	Environmental Mining Engineering

Technical Complementaries

Global Change: P

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

6.12.7.5.4 Bachelor of Engineering (B.Eng.) - Co-op in Mining Engineering (150 credits)

Program credit weight: 150-151 credits

Program credit weight for Quebec CEGEP students: 121-122 credits

The Department offers a Co-op in Mining Engineering and a Mining Engineering program (without co-op terms), both leading to an accredited B.Eng. degree in Mining Engineering. The co-op program includes three paid industrial work terms. The co-op program is offered in one of two streams: English Stream for non-CEGEP students and Bilingual Stream (six courses in French) for CEGEP students, in collaboration with the mining engineering program at Ecole Polytechnique in Montreal. Students in the Bilingual Stream are required to take six mining courses, designated by subject code MPMC, at Ecole Polytechnique in the latter part of the program.

Students must register for each work term (MIME 290, MIME 291, MIME 392) and pay associated fees by the Course Change (add/drop) registration deadline. Before registering for any work term course, students must contact the Mining Co-op Liaison Officer for approval.

MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MECH 289	(3)	Design Graphics

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mining Engineering Courses

53 credits

MIME 200	(3)	Introduction to the Minerals Industry
MIME 203	(2)	Mine Surveying
MIME 209	(3)	Mathematical Applications
MIME 260	(3)	Materials Science and Engineering
MIME 290	(2)	Industrial Work Period 1
MIME 291	(2)	Industrial Work Period 2
MIME 322	(3)	Rock Fragmentation
MIME 323	(3)	Rock and Soil Mass Characterization
MIME 325	(3)	Mineral Industry Economics
MIME 333	(3)	Materials Handling
MIME 340	(3)	Applied Fluid Dynamics
MIME 341	(3)	Introduction to Mineral Processing
MIME 392	(2)	Industrial Work Period 3
MIME 413	(3)	Strategic Mine Planning With Uncertainty
MIME 419	(3)	Surface Mining
MIME 422	(3)	Mine Ventilation
MIME 425	(3)	Applied Stochastic Orebody Modelling
MIME 426	(6)	Mine Design and Prefeasibility Study

Complementary Courses

31-32 credits

17 credits from one of Stream A or Stream B

Stream A - CEGEP Students

CEGEP students must take the following courses:

MPMC 321*	(3)	Mécanique des roches et contrôle des terrains
MPMC 326*	(3)	Recherche opérationnelle I
MPMC 328*	(3)	Environnement et gestion des rejets miniers
MPMC 329*	(2)	Géologie minière
MPMC 330*	(3)	Géotechnique minière
MPMC 421*	(3)	Exploitation en souterrain

* Mining courses taken at École Polytechnique

Stream B - Non-CEGEP Students

Non-CEGEP students must take the following courses:

CIVE 208	(3)	Civil Engineering System Analysis
MIME 329	(2)	Mining Geology
MIME 330	(3)	Mining Geotechnics
MIME 421	(3)	Rock Mechanics
MIME 424	(3)	Underground Mining Methods
MIME 428	(3)	Environmental Mining Engineering

Technical Complementarys

8-9 credits can be chosen from the following or from any other approved technical courses in Engineering, Management, or Science (including mathematics courses).

Note: Not all courses are given annually; see the "Courses" section of this eCalendar to know if a course is offered.

CFIN 410	(3)	Investment and Portfolio Management
CIVE 416	(3)	Geotechnical Engineering
CIVE 421	(3)	Municipal Systems
CIVE 514	(3)	Structural Mechanics
CIVE 584	(3)	Mechanics of Groundwater Flow
EPSC 320	(3)	Elementary Earth Physics
EPSC 549	(3)	Hydrogeology
FINE 482	(3)	International Finance 1
MIME 320	(3)	Extraction of Energy Resources
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 484	(3)	Mining Project
MIME 494	(2)	Industrial Work Period 4
MIME 511	(3)	Advanced Subsurface Ventilation and Air Conditioning
MIME 514	(3)	Sustainability Analysis of Mining Systems
MIME 520	(3)	Stability of Rock Slopes
MIME 527	(3)	Selected Topics in Mineral Resource Engineering
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MIME 588	(3)	Reliability Analysis of Mining Systems
MPMC 320*	(3)	CAO et informatique pour les mines

* Mining course taken at École Polytechnique

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
CIVE 469	(3)	Infrastructure and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability

GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

For details of the M.U.P. admission requirements and curriculum, consult the [Faculty of Engineering](#) section for Graduate and Postdoctoral Studies. The School also offers a PhD program in Urban Planning, Policy and Design; information and admission requirements for this program can also be found on the Faculty website and on the School website.

6.12.8.3 Undergraduate Courses in Urban Planning

The following courses taught by faculty in the School of Urban Planning are open to undergraduate students:

Undergraduate Courses in Urban Planning		
ARCH 520	(3)	Montreal: Urban Morphology
URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 507	(3)	Planning and Infrastructure
URBP 514	(4)	Community Design Workshop
URBP 519	(6)	Sustainable Development Plans
URBP 514	(6)	Planning and Change

Associate Professors

David Wachsmuth; B.A.(McG.), M.Sc.(Tor.), Ph.D.(NYU)

Assistant Professor

Anna Kramer; B.Env.D.(Dal.), M.Arch.(Dal.), Ph.D.(Wat.)

Adjunct Professors

Suzanne Doucet; B.A.(Ott.), B.E.D.S. (Dal.), M.Arch.(Dal.),M.Sc.Arch.(Laval)

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

6.12.10 Minor Programs

This section includes general information concerning minors that are designed for students in the Faculty of Engineering.

Minors are coherent sequences of courses taken in addition to the courses required for the B.Eng. or B.Sc.(Arch.) de

AERO 460D1	(3)	Aerospace Project
AERO 460D2	(3)	Aerospace Project
ECSE 458D1*	(3)	Capstone Design Project
ECSE 458D2*	(3)	Capstone Design Project
ECSE 478D1*	(3)	Electrical Engineering Honours Thesis
ECSE 478D2*	(3)	Electrical Engineering Honours Thesis
MECH 403D1*	(3)	Thesis (Honours)
MECH 403D2*	(3)	Thesis (Honours)
MECH 463D1*	(3)	Design 3: Mechanical Engineering Project
MECH 463D2*	(3)	Design 3: Mechanical Engineering Project

* An aerospace engineering project or honours thesis will be defined for students enrolled in the Minor and approved by the Minor Adviser.

And

12 credits from one of the following streams:

Students may take one complementary course outside of their stream, but their selection must be approved by the Minor Adviser prior to the registration for the course.

Aerodynamics and Propulsion Stream

MECH 447	(3)	Combustion
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 533	(3)	Subsonic Aerodynamics
MECH 535	(3)	Turbomachinery and Propulsion
MECH 539	(3)	Computational Aerodynamics
MECH 566	(3)	Fluid-Structure Interactions
MECH 579	(3)	Multidisciplinary Design Optimization

Aircraft Structures Stream

MECH 530	(3)	Mechanics of Composite Materials
MECH 536	(3)	Aerospace Structures
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 546	(3)	Finite Element Methods in Solid Mechanics
MECH 550	(3)	Vibrations of Continuous Systems
MECH 551	(3)	Nonlinear Dynamics of Shell Structures
MECH 567	(3)	Structural Dynamics of Turbomachines
MIME 560	(3)	Joining Processes
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes

Spacecraft and Systems Stream

GEOG 308	(3)	Remote Sensing for Earth Observation
MECH 513	(3)	Control Systems
MECH 536	(3)	Aerospace Structures
MECH 542	(3)	Spacecraft Dynamics
MECH 546	(3)	Finite Element Methods in Solid Mechanics

MECH 550	(3)	Vibrations of Continuous Systems
MECH 559	(3)	Engineering Systems Optimization
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
PHYS 320	(3)	Introductory Astrophysics

Material and Processes Stream

CHEE 515*	(3)	Interface Design: Biomimetic Approach
CHEE 541	(3)	Electrochemical Engineering
CHEE 543	(3)	Plasma Engineering
MECH 544	(3)	Processing of Composite Materials
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 515*	(3)	(Bio)material Surface Analysis and Modification
MIME 559	(3)	Aluminum Physical Metallurgy
MIME 560	(3)	Joining Processes
MIME 563	(3)	Hot Deformation of Metals
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
MIME 571	(3)	Surface Engineering
MIME 580	(3)	Additive Manufacturing Using Metallic and Ceramic Materials

* Students may choose only one of CHEE 515 or MIME 515.

Avionics Stream

ECSE 403	(4)	Control
ECSE 408	(4)	Communication Systems
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 425	(3)	Computer Architecture
ECSE 427	(3)	Operating Systems
ECSE 429	(3)	Software Validation
ECSE 436	(3)	Signal Processing Hardware
ECSE 444	(4)	Microprocessors
ECSE 450	(3)	Electromagnetic Compatibility
ECSE 465	(3)	Power Electronic Systems
ECSE 501	(3)	Linear Systems
ECSE 507	(3)	Optimization and Optimal Control
ECSE 511	(3)	Introduction to Digital Communication
ECSE 512	(3)	Digital Signal Processing 1
ECSE 513	(3)	Robust Control Systems
ECSE 516	(3)	Nonlinear and Hybrid Control Systems
ECSE 524	(3)	Interconnects and Signal Integrity
ECSE 565	(3)	Introduction to Power Electronics

ECSE 593

(3)

Antennas and Propagation

6.12.10.2 Bachelor of Engineering (B.Eng.) - Minor Applied Artificial Intelligence (25 credits)

The B.Eng.; Minor in Applied Artificial Intelligence, open to all engineering students, is designed to provide the foundation for applications of AI techniques in various fields of interest.

Advisor: Professor François Bouffard

(22-25 credits)

Students must complete 7 courses as follows. Up to three courses can be double counted with the major.

Required Course (3 credits)

COMP 250

(3)

Introduction to Computer Science

Complementary Courses (19-22 credits)

Cs.0B0 0 1 203.21618.0641677.Groum3ts)Cs.0C0 0 1 203.21618.0629990Groum3ts)

ECSE 446	(3)	Realistic Image Synthesis
ECSE 507	(3)	Optimization and Optimal Control
ECSE 526	(3)	Artificial Intelligence
ECSE 544	(4)	Computational Photography
ECSE 552	(4)	Deep Learning
MECH 559	(3)	Engineering Systems Optimization

Or any 400 or 500 level special topics courses in the area of artificial intelligence with the approval of the Electrical and Computer Engineering department.

6.12.10.3 Bachelor of Engineering (B.Eng.) - Minor Arts (24 credits)

Minor Adviser: Faculty Student Adviser in the Engineering Student Centre (Frank Dawson Adams Building, Room 22)

B.Sc.(Arch.), and B.Eng., students may obtain the Arts Minor as part of their B.Eng., or B.Sc.(Arch.) degree by completing 24 credits, as described below.

Students must select courses for thi70.48 Tm1 89.i4Mnsy Son andh theonen the

PHGY 210 (3) Mammalian Physiology 2

* Students can choose one of ANAT 212, BIOC 212 or BIOL 201.

** Students can choose one of ANAT 212, BIEN 219, BIOC 212, BIOL 200, BIOL 201 or BIOL 219.

*** Cannot be taken by Chemical Engineering students.

Specialization Courses

Minimum of 12 credits from courses below:

Students must select 6 credits from courses outside their department and at least one BMDE course. BMDE courses are best taken near the end of the program, when prerequisites are satisfied.

Physiological Systems, Artificial Cells and Organs

BIEN 340	(3)	Transport Phenomena in Biological Systems 2
BIEN 360	(3)	Physical Chemistry in Bioengineering
BIEN 462	(3)	Engineering Principles in Physiological Systems
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BMDE 505	(3)	Cell and Tissue Engineering
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
	(3)	Artificial Internal Organs

BMDE 505	(3)	Cell and Tissue Engineering
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering
CHEE 380	(3)	Materials Science
ECSE 424	(3)	Human-Computer Interaction
MECH 553	(3)	Design and Manufacture of Microdevices
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties
MIME 470	(3)	Engineering Biomaterials
PHYS 534	(3)	Nanoscience and Nanotechnology

Biomechanics and Prosthetics

BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 570	(3)	Active Mechanics in Biology
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering Biofluids and Cardio

BMDE 519	(3)	Biomedical Signals and Systems
ECSE 206*	(3)	Introduction to Signals and Systems
ECSE 517	(3)	Neural Prosthetic Systems
ECSE 526	(3)	Artificial Intelligence
PHYS 413	(3)	Physical Basis of Physiology

* Students choose either BIEN 350 or ECSE 206.

0-6 credits can be taken by permission of the Departmental Adviser and approval of the Minor Adviser.

Bachelor of Engineering (s.,c2350 or ECSE 206.

PSYT 455 (3) Neurochemistry

Physiology

EXMD 401 (3) Physiology and Biochemistry Endocrine Systems
 EXMD 502 (3) Advanced Endocrinology 1
 EXMD 503 (3) Advanced Endocrinology 02
 PHAR 562 (3) Neuropharmacology
 PHAR 563 (3) Endocrine Pharmacology
 PHGY 517 (3) Artificial Internal Organs
 PHGY 518 (3) Artificial Cells

Pollution

Note: Engineering students may not use these courses to count toward the Environmental Engineering Minor.

CIVE 225 (4) Environmental Engineering
 CIVE 430 (3) Water Treatment and Pollution Control
 CIVE 557 (3) Microbiology for Environmental Engineering

6.12.10.6 Bachelor of Engineering (B.Eng.) - Minor Chemistry (25 credits)

Minor Adviser (program coordinator): Dr. Samuel Sewall (Director of Undergraduate Studies, Chemistry)

Program credit weight: 25 credits

A passing grade for courses in the Minor is a C.

Required Courses

10 credits

CHEE 310* (3) Physical Chemistry for Engineers
 CHEM 212 (4) Introductory Organic Chemistry 1
 CHEM 233* (3) Topics in Physical Chemistry
 CHEM 234** (3) Topics in Organic Chemistry

* Students choose either CHEM 233 or CHEE 310

** or CEGEP equivalent

Complementary Courses

15 credits from the following lists, two courses of which must be laboratory courses (* indicates lab).

Note that CHEM 212 is a prerequisite for most of the courses listed below, and CHEM 213 (Introductory Physical Chemistry 1) and CHEM 273 (Introductory Physical Chemistry 2) or their equivalents are prerequisites for the Physical Chemistry courses. If students take CHEM 222 (Introductory Organic Chemistry 2), which includes a lab, instead of CHEM 234, they will receive credit for one of the two required laboratory courses, but they must complete a total of 25 credits in chemistry for the Minor.

Inorganic Chemistry

CHEM 281 (3) Inorganic Chemistry 1
 CHEM 371* (2) Inorganic Chemistry Laboratory
 CHEM 381 (3) Inorganic Chemistry 2
 CHEM 591 (3) Bioinorganic Chemistry

Analytical Chemistry

Prerequisites

CIVE 208	(3)	Civil Engineering System Analysis
CIVE 302	(3)	Probabilistic Systems
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
FACC 300	(3)	Engineering Economy

Required Courses: Management and Law (15 credits)

CIVE 324	(3)	Sustainable Project Management
		Law for

ECON 209*	(3)	Macroeconomic Analysis and Applications
ECON 230D1**	(3)	Microeconomic Theory
ECON 230D2**	(3)	Microeconomic Theory

* This requirement is waived for students who choose ECON 330D1/ECON 330D2 from the list of complementary courses. Students may not take ECON 209 and ECON 330D1/ ECON 330D2.

** Students may, with consent of the instructor, take ECON 250D1/ ECON 250D2 Introduction to Economic Theory: Honours, in place of ECON 230D1/2

ECON 225	(3)	Economics of the Environment
ECON 303	(3)	Canadian Economic Policy
ECON 304	(3)	Financial Instruments and Institutions
ECON 305	(3)	Industrial Organization
ECON 306	(3)	Labour Markets and Wages
ECON 308	(3)	Governmental Policy Towards Business
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 316	(3)	The Underground Economy
ECON 326	(3)	Ecological Economics
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory
ECON 335	(3)	The Japanese Economy
ECON 336	(3)	The Chinese Economy

Introductory5.864 3221.949 9ETm(Introductory5.861 Tt(ECON 303)T0 1 221.9r4)Tj370.377.7617Tm(ECON 336)Tj1 0

6.12.10.10 Minor in Environment

Environmental studies focus on the interactions between humans and their natural and technological environments. Environmental problems are complex, and their satisfactory solutions require the synthesis of social, scientific, and institutional knowledge.

The Minor in Environment is offered and administered by the Bieler School of Environment.

Since the program comprises a total of 18 credits for the Minor, additional credits beyond those needed for the B.Eng. degree are required. Students wishinhlNTj-0.17 30

URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Complementary Courses

9 credits

One of the following cross-listed courses (3 credits):

AGRI 452	(3)	Water Resources in Barbados
CIVE 452	(3)	Water Resources in Barbados

AND

One of the following cross-listed project courses (6 credits):

AGRI 519	(6)	Sustainable Development Plans
CIVE 519	(6)	Sustainable Development Plans
URBP 519	(6)	Sustainable Development Plans

Stream C

9 credits of courses specified from the "Barbados Interdisciplinary Tropical Studies (BITS)" field semester below, provided the project has sufficient environmental engineering content (project requires approval of the Coordinator of the Minor):

AEBI 425	(3)	Tropical Energy and Food
AEBI 427	(6)	Barbados Interdisciplinary Project

AND

9 credits chosen from the Engineering Course List below, excluding CHEE 496.

Engineering Course List

Courses offered at the Macdonald campus:

BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 416	(3)	Engineering for Land Development
BREE 518	(3)	Ecological Engineering

* Not open to students who have passed CIVE 323.

Courses offered at the Downtown campus:

ARCH 377	(3)	Energy, Environment, and Buildings 1
ARCH 515	(3)	Sustainable Design
CHEE 351	(3)	Separation Processes
CHEE 370	(3)	Elements of Biotechnology
CHEE 496	(3)	Environmental Research Project
CHEE 591	(3)	Environmental Bioremediation
CHEE 592	(3)	Industrial Air Pollution Control
CHEE 593	(3)	Industrial Water Pollution Control
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources

CIVE 421	(3)	Municipal Systems
CIVE 428	(3)	Water Resources and Hydraulic Engineering
CIVE 430	(3)	Water Treatment and Pollution Control
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 550	(3)	Water Resources Management
CIVE 555	(3)	Environmental Data Analysis
CIVE 557	(3)	Microbiology for Environmental Engineering
CIVE 572	(3)	Computational Hydraulics
CIVE 573	(3)	Hydraulic Structures
CIVE 574	(3)	Fluid Mechanics of Water Pollution
CIVE 577	(3)	River Engineering
CIVE 584	(3)	Mechanics of Groundwater Flow
MECH 447	(3)	Combustion
MECH 534	(3)	Air Pollution Engineering
MECH 535	(3)	Turbomachinery and Propulsion
MIME 422	(3)	Mine Ventilation
MIME 512	(3)	Corrosion and Degradation of Materials
MPMC 328	(3)	Environnement et gestion des rejets miniers
URBP 506	(3)	Environmental Policy and Planning

** Not open to students who have passed BREE 217.

Non-Engineering Course List

Courses offered at the Macdonald campus:

LSCI 230+	(3)	Introductory Microbiology
MICR 331+	(3)	Microbial Ecology
MICR 341	(3)	Mechanisms of Pathogenicity

EPSC 549	(3)	Hydrogeology
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 321	(3)	Climatic Environments
GEOG 404	(3)	Environmental Management 2
MIMM 211	(3)	Introductory Microbiology

6.12.10.12 Minor Programs in Finance, Management, Marketing, and Operations Management

Prerequisite: None

Minors for Non-Management Students: Students considering one of these Minor programs should consult a Faculty Student Adviser in the [McGill Engineering Student Centre](#) (Student Affairs Office; Frank Dawson Adams Building, Room 22) before applying to the Desautels Faculty of Management.

Many engineers begin to assume management functions within a few years of graduation. They can, at this stage, take up the study of economics, behavioural science, and other management subjects. Students wishing to include such studies in their undergraduate program can take suitable courses from Engineering and Management.

Each Minor comprises 18 credits of courses available from the core program of the Desautels Faculty of Management (subject to timetable requirements). Some courses from the Management core program have considerable overlap with Engineering courses and thus are not available to Engineering students.

Students embarking on a minor must be prepared to take credits additional to their Engineering program. Students in a B.Eng. program may be able to count up to 6 credits of Complementary Studies Group B courses (Humanities and Social Sciences, Management Studies, and Law courses) toward both their Engineering major program and a Management minor where applicable. More information about Complementary Studies is given in each individual academic program listing for the B.Eng. degree (see [section 6.12: Browse Academic Units & Programs](#)).

Admission requirements for the Management Minors change annually. Please consult the [Desautels Faculty of Management website](#) for more details.

Students planning to take any course with statistics as a prerequisite must have completed MGCR 271 (Business Statistics) or an equivalent course approved by the BCom Student Affairs Office.

Application and Program Requirements

Detailed information on the following Minor programs can be found in [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management](#) (see [Tj0 0 1 rg0 0 1 RG/F2 8.1 Tj164 0 1 206.689 408.54 Tm1 .74 Tm\(owse \)Tj18](#)

MIME 467 (3) Electronic Properties of Materials

* Students choose either CHEE 380 or MIME 260.

Complementary Courses

9 credits from the following:

CHEE 587	(3)	Chemical Processing: Electronics Industry
ECSE 545	(3)	Microelectronics Technology
MECH 530	(3)	Mechanics of Composite Materials
MIME 360	(3)	Phase Transformations: Solids
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 560	(3)	Joining Processes
MIME 561	(3)	Advanced Materials Design
MIME 563	(3)	Hot Deformation of Metals
MIME 569	(3)	Electron Beam Analysis of Materials

6.12.10.14 Bachelor of Engineering (B.Eng.) - Minor Mathematics (18 credits)

The B.Eng.; Minor in Mathematics provides students with an even stronger foundation in mathematics to further develop their knowledge of this subject. Students enrolled in the B.Eng.; Minor in Mathematics complete a series of mathematics courses offered by the Department of Mathematics and Statistics, or other units offering mathematics courses.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) AND an adviser designated by the Department of Mathematics and Statistics. (Please consult the Department of Mathematics and Statistics for the name of this adviser.) Selection of courses must be undertaken in conjunction with the Minor Advisers, normally beginning in the U2 year.

Note: The B.Eng.; Minor in Mathematics is open to all students in the Faculty of Engineering (including students registered in the B.Sc.(Arch.)). A maximum of 9 credits of overlap (double-counting) with the degree program is allowed.

Engineering students must obtain a grade of C or better in courses approved for this Minor.

Required Course (3 credits)

MATH 242	(3)	Analysis 1
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Complementary Courses (15 credits)

3 credits selected from:

MATH 223	(3)	Linear Algebra
MATH 247	(3)	Honours Applied Linear Algebra

6-12 credits selected from:

ECSE 205*	(3)	Probability and Statistics for Engineers
MATH 204	(3)	Principles of Statistics 2
MATH 240	(3)	Discrete Structures
MATH 243	(3)	Analysis 2
MATH 264	(3)	Advanced Calculus for Engineers
MATH 271**	(3)	Linear Algebra and Partial Differential Equations
MATH 316	(3)	Complex Variables
MATH 319**	(3)	Introduction to Partial Differential Equations
MATH 323*	(3)	Probability

MATH 324*	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 340	(3)	Discrete Mathematics
MATH 417	(3)	Linear Optimization
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 475	(3)	Honours Partial Differential Equations
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 560	(4)	Optimization

* Students who take ECSE 205 may not take MATH 323 or MATH 324.

** Students may take MATH 271 or MATH 319 but not both.

0-6 credits chosen from (200- to 500-level) Mathematics and Statistics courses approved for the B.Sc. Major Mathematics or B.Sc. Honours Mathematics programs, or from mathematics courses offered in other units. The courses in this category must be chosen in consultation with, and approved by, the Minor Adviser from the Department of Mathematics and Statistics.

Note: MATH 262, MATH 263 (or any course with substantial overlap in content with these two courses) and/or MATH 338 cannot be credited towards this minor.

6.12.10.15 Bachelor of Engineering (B.Eng.) - Minor Mining Engineering (23 credits)

Minor Adviser: Prof. Mustafa Kumral (Minor Coordinator)

Frank Dawson Adams Building, Room 119

Program credit weight: 23 credits

One of the required courses is a work term for which enrolment may be limited.

Required Courses

14 credits

MIME 200	(3)	Introduction to the Minerals Industry
MIME 291	(2)	Industrial Work Period 2
MIME 322	(3)	Rock Fragmentation
MIME 325	(3)	Mineral Industry Economics
MIME 333	(3)	Materials Handling

Complementary Courses

9 credits

List A: Mining Engineering

3-9 credits from the following:

MIME 320	(3)	Extraction of Energy Resources
MIME 323	(3)	Rock and Soil Mass Characterization
MIME 341	(3)	Introduction to Mineral Processing
MIME 419	(3)	Surface Mining
MIME 422	(3)	Mine Ventilation
MIME 520	(3)	Stability of Rock Slopes
MIME 521	(3)	Stability of Underground Openings
MIME 526	(3)	Mineral Economics

Reliability

Email: research.music@mcgill.ca
Website: mcgill.ca/music/programs/minor/mst

6.12.10.17 Bachelor of Engineering (B.Eng.) - Minor Nanotechnology (21 credits)

Through courses already offered in the Faculties of Science, Engineering, and Medicine and Health Sciences, depending on the courses completed, undergraduate students will acquire knowledge in some of the following areas related to nanotechnology:

- Nanomaterial synthesis and processing approaches
- Physicochemistry and quantum behavior of nanomaterials
- State-of-the-art techniques for nanomaterial characterization and detection
- Applications of nanomaterials in engineered solutions
- Nanomaterials in medicine and pharmacology
- Nanomaterials in electronics and energy
- Environmental, health, and social impacts of nanomaterials

Minor program credit weight: 21-22 credits

Minor Adviser: Prof. N. Tufenkji, Wong Building, Room 4300

Students must complete 21 credits of courses as indicated below. A maximum of 12 credits of courses in the student's major may double-count with the Minor.

Students who have not taken the listed prerequisites for any of these courses should ensure that they have the adequate background and/or meet with the instructor before registering for the course. Permission from the instructor and/or department may be required.

The program is open to undergraduate students that are in Year 2 or higher.

Complementary Courses (21-22 credits)

Group A

Students must complete a minimum of 3 credits from the following list of courses:

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BMDE 508ng	(3)	Introduction to Micro and Nano-Bioengineering

BIOL 319*	(3)	Introduction to Biophysics
PHYS 319*	(3)	Introduction to Biophysics
PHYS 346	(3)	Majors Quantum Physics
PHYS 558	(3)	Solid State Physics

* Students can take only one course from each set of the following courses:

- MIME 260, MIME 261, MIME 262 or CHEE 380

- CHEE 515 or MIME 515

- CHEE 521 or CIVE 521

- CHEM 534 or PHYS 534

- BIOL 319 or PHYS 319

** A 3.0 or higher CGPA is required in order to take these courses.

*** When topic is appropriate, with approval from the Minor Adviser.

6.12.10.18 Bachelor of Engineering (B.Eng.) - Minor Physics (18 credits)

This Minor is restricted to students in Honours Engineering programs (Honours Electrical Engineering and Honours Mechanical Engineering). Students take 9 credits of required courses in thermal physics and honours quantum physics and choose three other Physics courses (subject code PHYS).

Minor Adviser: Head Adviser, Department of Physics, undergraduate.advisor@physics.mcgill.ca. For names and other contact information, see <http://www.physics.mcgill.ca.ugrads/advsched.html>.

Required Courses

9 credits

PHYS 253	(3)	Thermal Physics
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 457	(3)	Honours Quantum Physics 2

Complementary Courses (9 credits)

9 credits from the following:

PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 362	(3)	Statistical Mechanics
PHYS 432	(3)	Physics of Fluids
PHYS 514	(3)	General Relativity
PHYS 551	(3)	Quantum Theory
PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics

Required Courses

12 credits

COMP 250	(3)	Introduction to Computer Science
ECSE 223	(3)	Model-Based Programming
ECSE 321	(3)	Introduction to Software Engineering
ECSE 428	(3)	Software Engineering Practice

Complementary Courses

6 credits from the following:

COMP 302	(3)	Programming Languages and Paradigms
COMP 409	(3)	Concurrent Programming
COMP 421	(3)	Database Systems
COMP 424*	(3)	Artificial Intelligence
COMP 527	(3)	Logic and Computation
ECSE 326	(3)	Software Requirements Engineering
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 424	(3)	Human-Computer Interaction
ECSE 425	(3)	Computer Architecture
ECSE 427	(3)	Operating Systems
ECSE 429	(3)	Software Validation
ECSE 439*	(3)	Software Language Engineering
ECSE 446*	(3)	Realistic Image Synthesis
ECSE 526*+	(3)	Artificial Intelligence
ECSE 539*+	(4)	Advanced Software Language Engineering
ECSE 546*+	(4)	Advanced Image Synthesis

* Students may choose only one course in each of the following sets:

- COMP 424 and ECSE 526

- ECSE 439 and ECSE 539

- ECSE 446 and ECSE 546

+ Restricted to Honours students or Computer Engineering or Electrical Engineering students with CGPA of at least 3.0 and B+ or better in prerequisites

6.12.10.20 Bachelor of Engineering (B.Eng.) - Minor Technological Entrepreneurship (18 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

This Minor is a collaboration of the Faculty of Engineering and Desautels Faculty of Management and is designed to provide Engineering (B.Eng. and B.Sc. (Arch.)) students with an understanding of how to conceptualize, develop, and manage successful new ventures – including for-profit private companies, social enterprises, and cooperatives as well as intrapreneurship initiatives. The program covers the essentials of management and is multidisciplinary and integrative. Many courses in the Minor will address a mix of students from across multiple McGill faculties.

B.Eng. students may double-count up to two courses (6 credits) of Complementary Studies (Group B., Humanities, and Social Science courses) toward the Minor. B.Eng. Mechanical Engineering students may double-count up to 6 credits of Complementary Studies Group B courses and/or Elective courses (for Mechanical Engineering students from a CEGEP background) toward the Minor.

This Minor is restricted to students in Y

FACC 500	(3)	Technology Business Plan Design
INTG 201	(3)	Integrated Management Essentials 1
INTG 202	(3)	Integrated Management Essentials 2
MGPO 362	(3)	Fundamentals of Entrepreneurship

Complementary Courses (6 credits)

3-6 credits from the following:

FACC 501	(3)	Technology Business Plan Project
MGPO 364	(3)	Entrepreneurship in Practice

0-3 credits from the following:

BUSA 465	(3)	Technological Entrepreneurship
LAWG 570	(3)	Innovation for Non-Law Students
MGPO 438	(3)	Social Entrepreneurship and Innovation
ORGB 321	(3)	Leadership

7 Bieler School of Environment

7.1 About the Bieler School of Environment

McGill's Faculties of Agricultural and Environmental Sciences, Arts, Science, and Law have forged a unique approach to the study of environment through the interfaculty, trans-disciplinary Bieler School of Environment. The growth of technology, globalising economies, and rapid increases in population have had dramatic and significant environmental impacts. These changes have been accompanied by an increasing awareness of the relationship between human activity and the environment. Environmental problems range from local and short-term degradation through to perturbations observed over the entire globe over the span of many years. The importance of human-environment relations for environmental and social well-being, and the complexity and conflict involved in environmental analysis and decision making, requires a depth and breadth of knowledge. The Bieler School of Environment has developed its programs with the approach of introducing students to a broad range of ideas early in the program to provide a foundation and an openness upon which more specialized, disciplinary knowledge can be built.

7.2 Mission of the School

The mission of the Bieler School of Environment is:

- to provide a program that to uvironment is: 1aly51 0 0 1 533.067.5n the pr-b1 5dTm(vironmental2ce 462tto u)Tj1 0 0 making, rli056a(hool)Tj1 0323 1 22to uged a

7.3 About the School (Undergraduate)

For those wishing to pursue a career in environment, the Bieler School of Environment aims to stimulate their passion for life-long learning, their confidence in questioning established norms, their ingenuity and openness to new ideas, and their ability to communicate and contribute effectively in all situations. We believe that these goals are best achieved through repeated opportunities to witness, experience, and participate in diverse academic approaches. We believe that individual achievement is maximized by assuming inherent capacity and by recognizing that not all students learn the same way. Finally, we believe that major research achievements emerge out of a dynamic, interactive community where dialogue occurs among engaged students, staff, and faculty from all disciplines. Thus, our approach to learning is student-centered. We strive to achieve a fully integrated, transdisciplinary understanding of problems and solutions to the many and interdependent en

Professors

Peter G. Brown; B.A.(Haver.), M.A., Ph.D.(Col.) (*joint appt. with Geography and Natural Resource Sciences*)

Iwao Hirose; B.A., M.A.(Waseda), Ph.D.(St. And.) (*joint appt. with Philosophy*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with Redpath Museum*)

Associate Professors

Madhav Badami; B.Tech., M.S.(IIT Madras), M.E.Des.(Calg.), Ph.D.(Br. Col.) (*joint appt. with School of Urban Planning*)

Christopher Barrington-Leigh; S.M.(MIT), Ph.D.(Stan.), Ph.D.(Br. Col.) (*joint appt. with Institute for Health and Social Policy*)

Jeffrey Cardille; B.Sc.(Carn. Mell), M.Sc.(Georgia Tech.), M.Sc., Ph.D.(W

Associate Members

Management, Desautels Faculty of: Dror Etzion

Natural Resource Sciences: Christopher Buddle, Benoît Côté, Brian Driscoll, Gordon Hickey

7.4.3 Advising in the BSE

Each Domain in the Bieler School of Environment has its own mentor who is available to answer your questions and offer you guidance about working and learning within the particular field of the Domain. However, if you have questions about program requirements or rules, transfer credits, study abroad programs, course substitutions, or any forms that need to be signed, you should contact the Program Adviser, Kathy Roulet, at kathy.roulet@mcgill.ca.

7.4.4 Important Information about Program Selection

If you are unsure of the Domain that you want to pursue in U1, you may register in the **Major** or **Faculty Program in Environment** without picking a Domain. However, you must pick a Domain by your U2 year.



Note: You must select a Domain in order to graduate.

(This section does not apply to students in the B.A. & Sc., Minor, or Diploma programs.)

7.4.5 Examination Regulations

Regulations concerning the method of evaluation of any course (including those governing supplemental examinations) are those of the faculty that offers

6. A **Major in Environment leading to a B.Sc.** is open to students meeting the entrance requirements of the Faculty of Science. For more information, see [section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#).
7. An **Honours Program in Environment** is open to senior Environment students in the B.A., B.A. & Sc., B.Sc.(Ag.Env.Sc.) and B.Sc. degrees. For more information, see [section 7.7.6: Honours Program in Environment](#).
8. A **Joint Honours Program in Environment** is open to senior Environment students in the B.A. degree. For more information, see [section 7.7.7.1: Bachelor of Arts \(B.A.\) - Joint Honours Component Environment \(36 credits\)](#).
9. A **Diploma in Environment** is available only to students who have already completed a Bachelor or an equivalent degree, and who want to return to university for further undergraduate study. The Diploma is offered by the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, and the Faculty of Science. For more information, see [section 7.7.8: Diploma in Environment](#).

These programs strive to offer the flexibility necessary to deal with the environment through a set of core courses that provide the general knowledge base of the program combined with a progressive series of courses in a trans-disciplinary area of environmental specialisation, referred to as a Domain.

The programs are designal spec.(Ag.En

ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 370	(3)	Protected Areas
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 423	(3)	Dilemmas of Development
GEOG 530	(3)	Global Land and Water Resources
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment
NRSC 221	(3)	Environment and Health
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 341	(3)	Philosophy of Science 1
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 350	(3)	Global Environmental Politics
POLI 412	(3)	Canadian Voting/Public Opinion
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 474	(3)	Inequality and Development
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 307	(3)	Globalization

SOCI 365	(3)	Health and Development
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both; you may take ENVB 529 or GEOG 201, but not both; you may take one of BREE 217, CIVE 323 or GEOG 322; you may take BIOL 308 or ENVB 305, but not both; you may take BIOL 465 or WILD 421, but not both; you may take COMP 202 or COMP 204, but not both; you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465**	(3)	Conservation Biology
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 518	(3)	Ecological Engineering
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
COMP 202**	(3)	Foundations of Programming
COMP 204**	(3)	Computer Programming for Life Sciences
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management

ENVB 529**	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 422	(3)	Montreal Urban Sustainability Analysis
EPSC 201**	(3)	Understanding Planet Earth
	(3)	Earth and Life History

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

For more information, contact:

Ms Kathy Roulet, Program Adviser

Email: Kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of Bieler School of Environment core courses:

The core courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to tak

ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
EDER 494	(3)	Human Rights and Ethics in Practice
ENVB 437	(3)	Assessing Environmental Impact
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 301	(3)	Geography of Nunavut
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 370	(3)	Protected Areas
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 423	(3)	Dilemmas of Development
GEOG 530	(3)	Global Land and Water Resources
HIST 249	(3)	Health and the Healer in Western History
HIST 292	(3)	History and the Environment
NRSC 221	(3)	Environment and Health
		Introduct4 332. 458nconomics of Cleoo

RELG 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 307	(3)	Globalization
SOCI 365	(3)	Health and Development
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both: you may take ENVB 529 or GEOG 201, but not both: you may take one of BREE 217, CIVE 323 or GEOG 322: you may take BIOL 308 or ENVB 305, but not both: you may take BIOL 465 or WILD 421, but not both: you may take COMP 202 or COMP 204, but not both: you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465**	(3)	Conservation Biology
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 518	(3)	Ecological Engineering
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
COMP 202**	(3)	Foundations of Programming

COMP 204**	(3)	Computer Programming for Life Sciences
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 529**	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 422	(3)	Montreal Urban Sustainability Analysis
EPSC 201**	(3)	Understanding Planet Earth
EPSC 233**	(3)	Earth and Life History
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
FDSC 230	(4)	Organic Chemistry
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201**	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 2723)	(3)	Earth's Changing Surface

COLIatiocEn

7.7.2 B.A. Faculty Program in Environment

The B.A. Faculty Program comprises two course components: Core and Domain.

Core: In the Core, the four introductory courses and an intermediate-level course expose students to different interdisciplinary perspectives, approaches, and world views to help them understand the complexity and conflicts that underlie most environmental problems. In the two senior-level courses of the Core, students will apply the general and specialized knowledge acquired through the rest of their program, to the analysis of a selection of contemporary environmental problems. Students will be challenged by the Core program to look beyond the confines of their individual views of environment.

Domain:

AEBI 120	(3)	General Biology
BIOL 111	(3)	Principles: Organismal Biology

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Do

GEOG 322* (3) Environmental Hydrology

Agriculture

AEBI 425 (3) Tropical Energy and Food
 AGRI 340 (3) Principles of Ecological Agriculture
 AGRI 411 (3) Global Issues on Development, Food and Agriculture
 AGRI 550 (3) Sustained Tropical Agriculture
 NUTR 341 (3) Global Food Security

Decision Making

AGEC 333 (3) Resource Economics
 ECON 440 (3) Health Economics
 PHIL 343 (3) Biomedical Ethics
 RELG 270 (3) Religious Ethics and the Environment
 URBP 507 (3) Planning and Infrastructure

Biology Fundamentals:

* Note: You may take BIOL 308 or ENVB 305, but not both.

AEBI 210 (3) Organisms 1
 AEBI 211 (3) Organisms 2
 BIOL 200 (3) Molecular Biology
 BIOL 308* (3) Ecological Dynamics
 ENVB 305* (3) Population and Community Ecology
 LSCI 211 (3) Biochemistry 1

Development and Ecology

ANTH 212 (3) Anthropology of Development
 ANTH 339 (3) Ecological Anthropology
 ANTH 512 (3) Political Ecology
 ENVR 421 (3) Montreal: Environmental History and Sustainability
 GEOG 300 (3) Human Ecology in Geography
 GEOG 310 (3) Development and Livelihoods
 SOCI 254 (3) Development and Underdevelopment
 SOCI 365 (3) Health and Development

List B:

6 credits from List B (maximum 3 credits from any one category):

Advanced Ecology

* Note: You may take BIOL 451 or NRSC 451, but not both.

AEBI 421 (3) Tropical Horticultural Ecology
 BIOL 451* (3) Research in Ecology and Development in Africa

BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
	(3)	Ecosystem Ecology

Populations and Place

* Note: You may take ANTH 451 or GEOG 451, but not both.

ANTH 451*	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
EDKP 204	(3)	Health Education
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
HIST 335	(3)	Science and Medicine in Canada
HIST 510	(3)	Environmental History of Latin America (Field)
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 550	(3)	Developing Societies

7.7.2.2 Economics and the Earth's Environment Domain

This domain is open only to students in the B.A. Faculty Program in Environment.

Adviser

Mentor

Professor Jeanne P

Other Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program pre-requisites or co-requisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course – Senior Research Project (3 credits)

Only 3 credits will be applied to the program: extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (15 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 240	(3)	Geology in the Field

Domain: Complementary Courses (18 credits)

18 credits are selected from various categories as follows:

Statistics (3 credits)

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Economics

6 credits from:

ANTH 418	(3)	Environment and Development
GEOG 310	(3)	Development and Livelihoods
GEOG 408	(3)	Geography of Development
GEOG 409	(3)	Geographies of Developing Asia
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
URBP 520	(3)	Globalization: Planning and Change

Natural Sciences

3 credits from:

* Note: You may take BIOL 308 or ENVB 305 but not both; you may take BIOL 465 or WILD 421 but not both; you may take ENVB 210 or GEOG 305 but not both; you may take BREE 217 or GEOG 322 but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 308*	(3)	Ecological Dynamics
BIOL 451	(3)	Research in Ecology and Development in Africa
BIOL 465*	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217*	(3)	Hydrology and Water Resources
ENVB 210*	(3)	The Biophysical Environment
ENVB 305	(3)	Population and Community Ecology
GEOG 305*	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
NRSC 451	(3)	Research in Ecology and Development in Africa
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 505	(3)	Public Health Nutrition
PARA 410	(3)	Environment and Infection
WILD 421*	(3)	Wildlife Conservation

Social Sciences

6 credits from:

* Note: You may take GEOG 221 or NRSC 221, but not both.

AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AGEC 333	(3)	Resource Economics
AGRI 452	(3)	Water Resources in Barbados
ANTH 451	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 201	(3)	Introductory Geo-Information Science

GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 311	(3)	Economic Geography
GEOG 331	(3)	Urban Social Geography
GEOG 404	(3)	Environmental Management 2
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 416	(3)	Africa South of the Sahara

1. Students are required to take a maximum of 21 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes required courses.
2. Students must complete at least 21 credits in the Faculty of Arts and at least 21 in the Faculty of Science as part of their interfaculty program and their minor or minor concentration. ENVR courses are considered courses in both Arts and Science, and so the credits are split between the two faculties for the purpose of this regulation.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught on both McGill's Downto

BIOL 441	(3)	Biological Oceanography
BIOL 540*	(3)	Ecology of Species Invasions
ENVB 305*	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 350	(3)	Ecological Biogeography
PLNT 460	(3)	Plant Ecology

Area 2: Biodiversity and Conservation

BIOL 305	(3)	Animal Diversity
BIOL 355	(3)	Trees: Ecology and Evolution
BIOL 427	(3)	Herpetology
BIOL 465	(3)	Conservation Biology
ENTO 440	(3)	Insect Diversity
MICR 331	(3)	Microbial Ecology
PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

Area 3: Field Studies in Ecology and Conservation

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

Area 4: Hydrology and Water Resources

* Note: You may take only one of: GEOG 322, BREE 217, or CIVE 323.

BREE 217*	(3)	Hydrology and Water Resources
CIVE 323*	(3)	Hydrology and Water Resources
EPSC 549	(3)	Hydrogeology
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 537	(3)	Advanced Fluvial Geomorphology

NRSC 5482 Tm(Subarctic Field Studies) 70.501877 Tm(BREE 217) 67.0636 150.223 Tm(W)Tj170.636 1ecp361 0 0 1 301:2 Tm(Montere)Tj1 0 0 1

PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease
PHAR 303	(3)	Principles of Toxicology

Area 6: Earth and Soil Sciences

ATOC 215	(3)	Oceans, Weather and Climate
EPSC 201	(3)	Understanding Planet Earth
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
SOIL 326	(3)	Soils in a Changing Environment

Area 7: Economics

* Note: You may take AGECE 200 or ECON 208, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 333	(3)	Resource Economics
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
GEOG 216	(3)	Geography of the World Economy

Area 8: Development and Underdevelopment

ANTH 212	(3)	Anthropology of Development
ANTH 418	(3)	Environment and Development
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
POLI 227	(3)	Developing Areas/Introduction
POLI 445	(3)	International Political Economy: Monetary Relations

Area 9: Cultures and People

ANTH 206	(3)	Environment and Culture
ANTH 339	(3)	Ecological Anthropology
ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 210	(3)	Global Places and Peoples

Area 10: Human Ecology and Health

ANTH 227	(3)	Medical Anthropology
GEOG 300	(3)	Human Ecology in Geography
GEOG 303	(3)	Health Geography

PHIL 343	(3)	Biomedical Ethics
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness

Area 11: Spirituality, Philosophy, and Thought

EDER 461	(3)	Society and Change
PHIL 221	(3)	Introduction to History and Philosophy of Science 2
PHIL 237	(3)	Contemporary Moral Issues
PHIL 341	(3)	Philosophy of Science 1
PHIL 348	(3)	Philosophy of Law 1
	(3)	Religious Ethics and the Environment

- Biodiversity and Conservation
- Ecological Determinants of Health (Population and Cellular stream options)
- Environmetrics
- Food Production and Environment
- Land Surface Processes and Environmental Change
- Renewable Resource Management
- Water Environments and Ecosystems (Biological and Physical stream options)

B.Sc. students in the Faculty of Science may also choose one of the following domains:

- Atmospheric Environment and Air Quality
- Earth Sciences and Economics

- 3. Senior Core and Research:** In the two senior courses of the Core, students will apply the general and specialized knowledge that they have gained in the program to the analysis of some specific, contemporary environmental problems.

To obtain a Major in Environment, students must:

- register in a domain online using Minerva;
- pass all courses counted toward the Major with **a grade of C or higher**;
- confirm that their course selection satisfies the required components of the Core and their chosen Domain, and that the complementary courses are approved courses in their chosen Domain; and
- fulfil all faculty requirements as specified by the faculty in which they are registered: for the B.Sc.(Ag.Env.Sc.), refer to [Faculty of Agricultural & Environmental Sciences > Undergraduate > About the Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition \(Undergraduate\) > section 2.4.6: Faculty Information and Regulations](#); for the B.Sc., see [Faculty of Science > Undergraduate > section 11.6: Faculty Degree Requirements](#). This includes meeting the minimum credit requirement as specified in their letter of admission.

7.7.4.1 Biodiversity and Conservation Domain

This domain is only open to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Belle

3 credits from:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

Statistics:

3 credits from the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap in the Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

Science, Policy, and Management:

9 credits are chosen from interface between science, policy, and management as follows:

* Note: You may take AGECE 200 or ECON 208, but not both.

** Note: You may take BIOL 451 or NRSC 451, but not both.

AEBI 423	(3)	Sustainable Land Use
AGECE 200*	(3)	Principles of Microeconomics
AGRI 550	(3)	Sustained Tropical Agriculture
ANTH 418	(3)	Environment and Development
BIOL 451**	(3)	Research in Ecology and Development in Africa
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment
ENVB 415	(3)	Ecosystem Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 302	(3)	Environmental Management 1
GEOG 360	(3)	Analyzing Sustainability
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
NRSC 451**	(3)	Research in Ecology and Development in Africa
PLNT 312	(3)	Urban Horticulture

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology
WILD 401	(4)	Fisheries and Wildlife Management
WILD 475	(3)	Desert Ecology
WOOD 441	(3)	Integrated Forest Management

General Scientific Principles

6 credits of general scientific principles selected from the following:

* Note: You may take only one of BREE 529, ENVB 529 or GEOG 314.

** Note: You may take GEOG 322 or BREE 217, but not both.

*** Note: You may take ANSC 326 or BIOL 324, but not both.

ANSC 326***	(3)	Fundamentals of Population Genetics
BIOL 202	(3)	Basic Genetics
BIOL 324***	(3)	Ecological Genetics
BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 441	(3)	Biological Oceanography
BIOL 515	(3)	Advances in Aquatic Ecology
BREE 217**	(3)	Hydrology and Water Resources
BREE 529*	(3)	GIS for Natural Resource Management
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 529*	(3)	GIS for Natural Resource Management
GEOG 272	(3)	Earth's Changing Surface
GEOG 314*	(3)	Geospatial Analysis
GEOG 321	(3)	Climatic Environments
GEOG 322**	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
LSCI 204	(3)	Genetics
MICR 331	(3)	Microbial Ecology

A second field course from the domain curriculum may also be taken.

Social Science:

3 credits from:

* Note: You may take ANTH 451 or GEOG 451, but not both.

AGEC 333	(3)	Resource Economics
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 339	(3)	Ecological Anthropology
ANTH 416	(3)	Environment/Development: Africa
ANTH 451*	(3)	Research in Society and Development in Africa
ECON 326	(3)	Ecological Economics

ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 519	(3)	Global Environmental Politics
GEOG 404	(3)	Environmental Management 2
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
URBP 520	(3)	Globalization: Planning and Change

Organisms and Diversity:

6 credits of organisms and diversity selected as follows:

* Note: You may take only one of ENTO 330, BIOL 350 or ENTO 350.

** Note: You may take BIOL 540 or ENVR 540, but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
AGRI 340	(3)	Principles of Ecological Agriculture
ANTH 311	(3)	Primate Behaviour and Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 350*	(3)	Insect Biology and Control
BIOL 355	(3)	Trees: Ecology and Evolution
BIOL 427	(3)	Herpetology
BIOL 540**	(3)	Ecology of Species Invasions
ENTO 330*	(3)	Insect Biology
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects
ENTO 440	(3)	Insect Diversity
ENVR 540**	(3)	Ecology of Species Invasions
PARA 424	(3)	Fundamental Parasitology
PLNT 304	(3)	Biology of Fungi
PLNT 434	(3)	Weed Biology and Control
REDM 400	(3)	Science and Museums
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

7.7.4.2 Ecological Determinants of Health Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Marilyn Scott Telephone: 514-398-7996 Email: marilyn.scott@mcgill.ca

7.7.4.2.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Ecological Determinants of Health - Cellular (63 credits)

The Cellular concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the en

Health, Society, and Environment

* Note: You may take GEOG 221 or NRSC 221, but not both.

GEOG 221*	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 503	(3)	Advanced Topics in Health Geography
NRSC 221*	(3)	Environment and Health
PPHS 529	(3)	Global Environmental Health and Burden of Disease
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness
SOCI 331	(3)	Population and Environment

Cellular Biology

* Note: You will not receive credit for either LSCI 211 or LSCI 202 if you have already received credit for both BIOL 200 and BIOL 201; you will not receive credit for either BIOL 200 or BIOL 201 if you have already received credit for both LSCI 202 and LSCI 211.

ANSC 234	(3)	Biochemistry 2
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 202	(3)	Molecular Cell Biology

Genetics

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Immunology and Pathogenicity

MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
PARA 438	(3)	Immunology
PATH 300	(3)	Human Disease

Infectious Disease

* Note: You can take MIMM 413 or PARA 424, but not both.

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 324	(3)	Fundamental Virology
MIMM 413*	(3)	Parasitology
PARA 424*	(3)	Fundamental Parasitology
PPHS 501	(3)	Population Health and Epidemiology

Toxicology

ANSC 312	(3)	Animal Health and Disease
ENVB 500	(3)	Advanced Topics in Ecotoxicology
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PHAR 300	(3)	Drug Action
PHAR 303	(3)	Principles of Toxicology

Hormones

* Note: You will not receive credit for ANSC 424 if you have already received credit for both PHGY 209 and PHGY 210; you will not receive credit for PHGY 210 if you have already received credit for both ANSC 323 and ANSC 424.

ANSC 424*	(3)	Metabolic Endocrinology
PHGY 210*	(3)	Mammalian Physiology 2
PSYC 342	(3)	Hormones and Behaviour

Physiology

* Note: You will not receive credit ANSC 323 if you have already received credit for both PHGY 209 and PHGY 210; you will not receive credit for PHGY 209 if you have already received credit for both ANSC 323 and ANSC 424.

ANSC 323*	(3)	Mammalian Physiology
PHGY 209*	(3)	Mammalian Physiology 1

Natural Environment:

6 credits chosen from the Natural Environment, maximum of 3 credits from any one category:

Hydrology and Climate

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments

GEOG 322* (3) Environmental Hydrology

Techniques and Management

AEBI 423 (3) Sustainable Land Use
CHEE 230 (3) Environmental Aspects of Technology
ENVB 437 (3) Assessing Environmental Impact
ENVR 422 (3) Montreal Urban Sustainability Analysis
GEOG 302 (3) Environmental Management 1
NUTR 450 (3) Research Methods: Human Nutrition
URBP 507 (3) Planning and Infrastructure

or, advOG 322*

agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the environment, economics, and human health. The distribution of infectious diseases is influenced by the climatic conditions that permit vectors to coexist with humans, by deforestation, by urbanization, and by human interventions ranging from the building of dams to provision of potable water.

In designing interventions that aim to prevent or reduce infectious contaminants in the environment, or to improve food production and nutritional quality, not only is it important to understand methods of intervention, but also to understand social forces that influence how humans respond to such interventions.

Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health. Students in the Cellular concentration will explore these interactions in more depth, at a physiological level.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program

GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
NRSC 221	(3)	Environment and Health

Health and Society

GEOG 403	(3)	Global Health and Environmental Change
GEOG 503	(3)	Advanced Topics in Health Geography
PPHS 529	(3)	Global Environmental Health and Burden of Disease
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness
SOCI 331	(3)	Population and Environment

Toxicology

ANSC 312	(3)	Animal Health and Disease
ENVB 500	(3)	Advanced Topics in Ecotoxicology
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PHAR 303	(3)	Principles of Toxicology

Cellular Biology

Note: You will not receive credit for either LSCI 211 or LSCI 202, if you have already received credit for both BIOL 200 and BIOL 201; you will not receive credit for either BIOL 200 or BIOL 201 if you have already received credit for LSCI 202 and LSCI 211.

ANSC 234	(3)	Biochemistry 2
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 202	(3)	Molecular Cell Biology

Molecular Biology

Note: You will not receive credit for either LSCI 211 or LSCI 202 if you have already received credit for both BIOL 200 and BIOL 201; you will not receive credit for either BIOL 200 or BIOL 201 if you have already received credit for both LSCI 202 and LSCI 211.

BIOL 200	(3)	Molecular Biology
LSCI 211	(3)	Biochemistry 1

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

Nutrition

ANSC 433	(3)	Animal Nutrition and Metabolism
NUTR 207	(3)	Nutrition and Health
NUTR 307	(3)	Metabolism and Human Nutrition

Advanced Ecology

* Note: You may take ENVR 540 or BIOL 540, but not both; you may take BIOL 451 or NRSC 451, but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
BIOL 451*	(3)	Research in Ecology and Development in Africa
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
ENVR 540*	(3)	Ecology of Species Invasions
MICR 331	(3)	Microbial Ecology
NRSC 451*	(3)	Research in Ecology and Development in Africa
PLNT 460	(3)	Plant Ecology

List A:

6 credits from the following List A categories, maximum of 3 credits from any one category:

Hydrology, Climate, and Agriculture

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology

Decision Making, Techniques and Management

* Note: You may take AGECE 200 or ECON 208, but not both; you may take ENVB 529 or GEOG 201, but not both.

AEBI 423	(3)	Sustainable Land Use
AGECE 200*	(3)	Principles of Microeconomics
AGECE 333	(3)	Resource Economics
CHEE 230	(3)	Environmental Aspects of Technology
ECON 208*	(3)	Microeconomic Analysis and Applications
ENVB 437	(3)	Assessing Environmental Impact
ENVB 529*	(3)	GIS for Natural Resource Management
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PHIL 343	(3)	Biomedical Ethics
URBP 507	(3)	Planning and Infrastructure

or, advanced quantitative methods course (with approval of Adviser).

Development and History

ANTH 212	(3)	Anthropology of Development
EDER 461	(3)	Society and Change
HIST 292	(3)	History and the Environment
NUTR 501	(3)	Nutrition in Developing Countries
SOCI 254	(3)	Development and Underdevelopment
URBP 520	(3)	Globalization: Planning and Change

List B:

9 credits from the following List B categories, maximum of 3 credits from any one category:

Immunology and Infectious Disease

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
PARA 424	(3)	Fundamental Parasitology
PARA 438	(3)	Immunology
PPHS 501	(3)	Population Health and Epidemiology

Populations and Place

* Note: You may take ANTH 451 or GEOG 451, but not both.

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 451*	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 300	(3)	Human Ecology in Geography
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
NUTR 341	(3)	Global Food Security

Pollution Control and Pest Management

* Note: You may take BIOL 350 or ENTO 350, but not both.

BIOL 350*	(3)	Insect Biology and Control
BREE 322	(3)	Organic Waste Management
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects
NRSC 333	(3)	Pollution and Bioremediation
PARA 515	(3)	Water, Health and Sanitation

Genetics

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

7.7.4.3 Environmetrics Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
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7.7.4.3.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Environmetrics (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

In view of the crucial need for sound study design and appropriate statistical methods for analyzing environmental changes and their impacts on humans and various life forms and their ecological relationships, this program is intended to provide students with a strong background in the use of statistical methods of data analysis in environmental sciences.

Graduates will be capable of effectively participating in the design of environmental studies and adequately analyzing data for use by the environmental community. Accordingly, the list of courses for the Environmetrics Domain is composed primarily of statistics courses and mathematically oriented courses with biological and ecological applications. The list is completed by general courses that refine the topics introduced in the Bieler School of Environment core courses by focusing on the ecology of living organisms, soil sciences or water resources, and impact assessment. These courses should allow the students to understand their interlocutors and be understood by them in their future job. Students can further develop their background in applied or mathematical statistics and their expertise in environmental sciences by taking complementary courses along each of two axes: statistics and mathematics, and environmental sciences. An internship is also offered to students to provide them with preliminary professional experience.

Suggested First Year (U1) Courses

ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

AEMA 403	(3)	Environmetrics Stage
AEMA 414	(3)	Temporal and Spatial Statistics 01

Domain - Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

12 credits - Fundamentals

3 credits - Basic Environmental Science

6 credits - Statistics, one of two options

15 credits - List 1 and List 2

Fundamentals:

12 credits of Fundamentals, 3 credits from each category.

Ecology

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

Impact

ENVB 437	(3)	Assessing Environmental Impact
MIME 308	(3)	Social Impact of Technology

Modelling

BIOL 309	(3)	Mathematical Models in Biology
ENVB 506	(3)	Quantitative Methods: Ecology

GIS Techniques

ENVB 529	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Basic Environmental Science:

One of:

Hydrology and W

6 credits of Statistics are selected from one of the following two options.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Obtain restriction credit gi

ENVB 313

(3)

Phylogeny and Biogeography
Advanced T

One of:

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

One of:

AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	Microeconomic Analysis and Applications

Applied Sciences (12 credits)

Food and Human Health

* Note: Students take FDSC 200 or NUTR 207, but not both.

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
FDSC 200*	(3)	Introduction to Food Science
FDSC 535	(3)	Food Biotechnology
MICR 331	(3)	Microbial Ecology
NUTR 207*	(3)	Nutrition and Health
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 505	(3)	Public Health Nutrition
PARA 410	(3)	Environment and Infection
PHAR 303	(3)	Principles of Toxicology

Food Production

AEBI 421	(3)	Tropical Horticultural Ecology
AEBI 425	(3)	Tropical Energy and Food
AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 325	(3)	Sustainable Agriculture and Food Security
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 385	(3)	Plant Growth and Development
ENTO 352	(3)	Biocontrol of Pest Insects
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 353	(3)	Plant Structure and Function

PLNT 430	(3)	Pesticides in Agriculture
PLNT 434	(3)	Weed Biology and Control
SOIL 315	(3)	Soil Nutrient Management

Natural Resources and Natural Resource Impacts

* Note: Students take BIOL 465 or WILD 421, but not both.

** Note: Students take BREE 217 or GEOG 322, but not both.

AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
BIOL 465*	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Ecological Engineering
ENVB 500	(3)	Advanced Topics in Ecotoxicology
GEOG 322**	(3)	Environmental Hydrology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 510	(3)	Environmental Soil Chemistry
WILD 401	(4)	Fisheries and Wildlife Management
WILD 421*	(3)	Wildlife Conservation

Social Science (6 credits)

Economic and Resource Policy

* Note: Students take AGECE 333 or ECON 405, but not both.

AGECE 320	(3)	Intermediate Microeconomic Theory
AGECE 333*	(3)	Resource Economics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 442	(3)	Economics of International Agricultural Development
ECON 225	(3)	Economics of the Environment
ECON 405*	(3)	Natural Resource Economics

Social Change and Human Impacts

ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
HIST 510	(3)	Environmental History of Latin America (Field)
SOCI 254	(3)	Development and Underdevelopment

Environment Management

* Note: Students may take only one of BREE 529, ENVB 529, or GEOG 201.

AEBI 423	(3)	Sustainable Land Use
ANTH 418	(3)	Environment and Development
BREE 529*	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
ENVB 529*	(3)	GIS for Natural Resource Management
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 530	(3)	Global Land and Water Resources
MGPO 440	(3)	Strategies for Sustainability

7.7.4.5 Land Surface Processes and Environmental Change Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Ian Strachan Telephone: 514-398-7935 Email: ian.strachan@mcgill.ca

7.7.4.5.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment-Land Surface Processes and Environmental Change (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment programs.

The thin soil layer on the planet's land surfaces controls the vital inputs of water, nutrients, and energy to terrestrial and freshwater aquatic ecosystems. Widespread occurrences around the globe of desertification, soil erosion, deforestation, and land submergence over water reservoirs indicate that this dynamic system is under increasing pressure from population growth and changes in climate and land uses. Production of key greenhouse gases (water vapour, CO₂, and methane) is controlled by complex processes operating at the land surface, involving climate change feedbacks that need to be fully understood, given current global warming trends.

The program introduces students to the interacting physical and biogeochemical processes at the atmosphere-lithosphere interface, which fashion land surface habitats and determine their biological productivity and response to anthropogenic or natural environmental changes. Through an appropriate selection of courses, students can prepare for graduate training in emerging research areas such as earth system sciences, environmental hydrology, and landscape ecology.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama
GEOG 451	(3)	Research in Society and Development in Africa

Domain Required Course (3 credits)

GEOG 203	(3)	Environmental Systems
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Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

9 credits - 3 credits from each category of Statistics, Geographic Information Systems, Weather and Climate

9 credits of fundamental land surface processes

0-3 credits from:

GEOG 272	(3)	Earth's Changing Surface
SOIL 300	(3)	Geosystems

0-3 credits from:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

0-3 credits from:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

Environment and Resource Management:

3 credits from:

* Note: You may take BIOL 308 or ENVB 305, but not both.

AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 308*	(3)	Ecological Dynamics
BIOL 465	(3)	Conservation Biology
CIVE 225	(4)	Environmental Engineering
ENVB 305*	(3)	Population and Community Ecology
ENVB 437	(3)	Assessing Environmental Impact
ENVB 530	(3)	Advanced GIS for Natural Resource Management
ENVR 422	(3)	Montreal Urban Sustainability Analysis
ESYS 301	(3)	Earth System Modelling
GEOG 302	(3)	Environmental Management 1
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 404	(3)	Environmental Management 2
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 530	(3)	Global Land and Water Resources
SOIL 315	(3)	Soil Nutrient Management
WILD 421	(3)	Wildlife Conservation
WOOD 441	(3)	Integrated Forest Management

Field Course

3 credits from:

ATOC 555	(3)	Field Course 1
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

WILD 475 (3) Desert Ecology

Social Science:

3 credits from:

A (3) Resource Economics

En

ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

One of:

ENVB 529	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Advanced Ecosystem Components:

6 credits of advanced ecosystem components selected from:

BIOL 553	(3)	Neotropical Environments
GEOG 372	(3)	Running Water Environments
PLNT 358	(3)	Flowering Plant Diversity
SOIL 326	(3)	Soils in a Changing Environment
WILD 307	(3)	Natural History of Vertebrates

Advanced Ecological Processes:

6 credits of advanced ecological processes selected from:

* Note: You may take BIOL 432 or ENVB 315, but not both; you can take BREE 217 or GEOG 322, but not both.

BIOL 432*	(3)	Limnology
BIOL 465	(3)	Conservation Biology
BREE 217*	(3)	Hydrology and Water Resources
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology

Social Processes:

6 credits of social processes selected as follows:

* Note: You may take AGECE 333 and ECON 405, but not both.

AGECE 242	(3)	Management Theories and Practices
AGECE 333*	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
CANS 407	(3)	Regions of Canada
ECON 405*	(3)	Natural Resource Economics
ENVR 421	(3)	Montreal: Environmental History and Sustainability

AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
ENVB 437	(3)	Assessing Environmental Impact
		Montreal Urban Sustainability Analysis

Statistics:

3 credits from:

* Note: Other appropriate statistics courses may be approved

List A (Water Environments and Habitats)

9-12 credits chosen from:

* Note: you may take BIOL 540 or ENVR 540, but not both; you may take ENVB 210 or GEOG 305, but not both,

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 432	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 540*	(3)	Ecology of Species Invasions
BIOL 553	(3)	Neotropical Environments
BIOL 570	(3)	Advanced Seminar in Evolution
BREE 533	(3)	Water Quality Management
ENTO 535	(3)	Aquatic Entomology
ENVB 210*	(3)	The Biophysical Environment
ENVB 410	(3)	Ecosystem Ecology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 305*	(3)	Soils and Environment
GEOG 470	(3)	Wetlands
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
SOIL 535	(3)	Ecological Soil Management
WILD 302	(3)	Fish Ecology
WILD 401	(4)	Fisheries and Wildlife Management

List B (Surface and Atmospheric Processes)

6-9 credits chosen from:

* Note: you may take ATOC 219 or CHEM 219, but not both; you may take ENVB 529 or GEOG 201, but not both.

ATOC 219*	(3)	Introduction to Atmospheric Chemistry
BIOL 515	(3)	Advances in Aquatic Ecology
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 267	(3)	Introductory Chemical Analysis
ENVB 529*	(3)	GIS for Natural Resource Management
ENVB 530	(3)	Advanced GIS for Natural Resource Management
EPSC 220	(3)	Principles of Geochemistry
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 372	(3)	Running Water Environments
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 537	(3)	Advanced Fluvial Geomorphology

7.7.4.7.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Water Environments and Ecosystems - Physical (63 credits)

The Water Environments and Ecosystems - Physical (63 credits, including the core) is a concentration open only to students in the B.Sc.(Ag.Env.Sc.); Major in Environment or B.Sc.; Major in Environment program.

The program focuses on the physical facet of the water environment, and the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere; and to a lesser extent on the biological processes taking place in water bodies.

Graduates of this domain are qualified to enter the work force or to pursue advanced studies in fields such as marine biology, geography, physical oceanography, and atmospheric science.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are offered at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Note: Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
	(6)	Sustainable Development

6 credits - Hydrology and Ecology

3 credits - Statistics

3 credits - Intermediate Calculus

3 credits - Field course

9 credits chosen from List A: Engineering/Math/Hydrology

6 credits chosen from List B: Marine and Freshwater Biology

Meteorology

3 credits from:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

Hydrology and Ecology

6 credits selected as follows:

3 credits from:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

3 credits from:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

Statistics

3 credits from:

* Note: Other appropriate statistics courses may be approved as substitutes by the Program Adviser.

Credit given for Statistics courses is subject to certain restrictions. Students in the Faculty of Arts or the Faculty of Science should consult the "Course Overlap" information in the "Course Requirements" section of the eCalendar for the Faculty of Science.

AEMA 310*	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Intermediate Calculus

3 credits from:

AEMA 202	(3)	Intermediate Calculus
MATH 222	(3)	Calculus 3

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology

BIOL 335	(3)	Marine Mammals
GEOG 495	(3)	Field Studies - Physical Geography
WILD 401	(4)	Fisheries and Wildlife Management

List A: (Engineering/Math/Hydrology)

6-9 credits chosen from:

* Note: You can take ENVB 529 or GEOG 201, but not both; you can take ENVB 530 or GEOG 506, but not both; you can take ENVB 210 or GEOG 305, but not both.

ATOC 309	(3)	Weather Radars and Satellites
BREE 416	(3)	Engineering for Land Development
BREE 420	(3)	Engineering for Sustainability
BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 533	(3)	Water Quality Management
CIVE 323	(3)	Hydrology and Water Resources
ENVB 210*	(3)	The Biophysical Environment
ENVB 529*	(3)	GIS for Natural Resource Management
ENVB 530	(3)	Advanced GIS for Natural Resource Management
EPSC 549	(3)	Hydrogeology
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 305*	(3)	Soils and Environment
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 537	(3)	Advanced Fluvial Geomorphology
SOIL 315	(3)	Soil Nutrient Management
URBP 520	(3)	Globalization: Planning and Change

0-3 credits from:

AEMA 305	(3)	Differential Equations
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WILD 6its chosen from:WILD WILD WILD NeoctopEnWILD mentWILD WILD coss andjcoTj1 0 0 1 165.864 353.09

GEOG 505	(3)	Global Biogeochemistry
GEOG 530	(3)	Global Land and Water Resources
WILD 302	(3)	Fish Ecology
WILD 421	(3)	Wildlife Conservation

7.7.5 Major in Environment – B.Sc.

In addition to the domains available to students in the Major program in either the Faculty of Science or the Faculty of Agricultural and Environmental Sciences, “Major in Environment - B.Sc.” students in the Faculty of Science can choose from one of the following two domains:

- Atmospheric Environment and Air Quality, or
- Earth Sciences and Economics.

Refer to [section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#) for the general guidelines and regulations, which apply to all domains in the Major in Environment program.

7.7.5.1 Atmospheric Environment and Air Quality Domain

This domain is open only to students in the B.Sc. Major in Environment program in the Faculty of Science.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Frédéric Fabry Telephone: 514-398-3652 Email: frederic.fabry@mcgill.ca

7.7.5.1.1 Bachelor of Science (B.Sc.) - Major Environment - Atmospheric Environment and Air Quality (60 credits)

The rapid expansion of industrialization has been accompanied by a host of environmental problems, many, if not most, involving the atmosphere. Some problems are of a local nature, such as air pollution in large urban centres, while others are global, or at least reach areas far removed from industrial activities.

The emphasis in this domain is on the mechanisms of atmospheric flow and on atmospheric chemistry. Courses examine how the atmosphere transports

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (15 credits)

15 credits are selected from:

* Note: You may take ATOC 219 or CHEM 219, but not both.

Introduction: Physics of the

ATOC 519*	(3)	Advances in Chemistry of Atmosphere
ATOC 540	(3)	Synoptic Meteorology 1
CHEE 230	(3)	Environmental Aspects of Technology
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 377	(3)	Instrumental Analysis 2
CHEM 519*	(3)	Advances in Chemistry of Atmosphere
CIVE 225	(4)	Environmental Engineering
CIVE 561	(3)	Greenhouse Gas Emissions
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
GEOG 505	(3)	Global Biogeochemistry
MATH 223	(3)	Linear Algebra
MATH 315*	(3)	Ordinary Differential Equations
NRSC 333	(3)	Pollution and Bioremediation
NRSC 510	(3)	Agricultural Micrometeorology

Social Science:

6 credits from:

ANTH 206	(3)	Environment and Culture
ANTH 418	(3)	Environment and Development
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment

7.7.5.2 Earth Sciences and Economics Domain

This domain is open only to students in the B.Sc. Major Environment program in the Faculty of Science.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Jeanne Paquette Telephone: 514-398-4402 Email: jeanne.paquette@mcgill.ca

7.7.5.2.1 Bachelor of Science (B.Sc.) - Major Environment - Earth Sciences and Economics (66 credits)

The resources necessary for human society are extracted from the Earth, used as raw materials in our factories and refineries, and then returned to the Earth as waste. Geological processes produce resources humans depend on, and they also determine the fate of wastes in the environment. Understanding Earth's geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. Additionally, economics frequently affects what energy sources power our society and how our wastes are treated. Earth sciences and economics are essential for our understanding of the many mechanisms, both physical and social, that affect Earth's environment.

This domain includes the fundamentals of each discipline. Students learn of minerals, rocks, soils, and waters and how these materials interact with each other and with the atmosphere. Fundamental economic theory and the economic effects of public policy toward resource industries, methods of waste disposal, and the potential effects of global warming on the global economy are also explored.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (21 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 240	(3)	Geology in the Field

Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

3 credits - Statistics courses

12 credits - Economic Resources

9 credits - Natural Resources

Statistics:

One of the following Statistics courses or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Economic Resources

12 credits from:

AGEC 333	(3)	Resource Economics
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 416	(3)	Topics in Economic Development 2
ECON 511	(3)	Energy, Economy and Environment
ECON 525	(3)	Project Analysis
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis

Natural Resources

9 credits from:

* ANTH 451 or GEOG 451 can be taken, but not both; BIOL 451 or NRSC 451 can be taken, but not both; ENVB 529 or GEOG 201 can be taken, but not both.

AGRI 550	(3)	Sustained Tropical Agriculture
ANTH 451*	(3)	Research in Society and Development in Africa
BIOL 451*	(3)	Research in Ecology and Development in Africa
BIOL 553	(3)	Neotropical Environments
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVB 529*	(3)	GIS for Natural Resource Management
ENVR 421	(3)	Montreal: Environmental History and Sustainability
EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3
EPSC 355	(3)	Sedimentary Geology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 549	(3)	Hydrogeology
EPSC 580	()	

EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 305	(3)	Soils and Environment
GEOG 322	(3)	Environmental Hydrology
GEOG 451*	(3)	Research in Society and Development in Africa
MIME 320	(3)	Extraction of Energy Resources
NRSC 451*	(3)	Research in Ecology and Development in Africa
SOIL 300	(3)	Geosystems
SOIL 315	(3)	Soil Nutrient Management
SOIL 326	(3)	Soils in a Changing Environment
SOIL 535	(3)	Ecological Soil Management

7.7.6 Honours Program in Environment

Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Envir

CHEM 110	(4)	General Chemistry 1
PHYS 101	(4)	Introductory Physics - Mechanics

And one of the following:

3 credits of Calculus or equivalent (e.g., CEGEP objective 00UN):

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

Required Courses (27 credits)

21 credits of Environment core courses as follows:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought
ENVR 401	(3)	Environmental Research

And 6 credits of honours research from the following:

Note: you take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

Complementary Courses (9 credits)

One of the following Statistics courses or equivalent:

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

And 6 credits chosen with approval of the Program Adviser, at least 3 credits of which must be at the 400 level or higher.

7.7.8 Diploma in Environment

Adviser

Ms. Kathy Roulet, Program Adviser
 Telephone: 514-398-4306
 Email: kathy.roulet@mcgill.ca

7.7.8.1 Diploma (Dip.) Environment (30 credits)

The Diploma in Environment is designed for students with an under

ANTH 418	(3)	Environment and Development
ANTH 512	(3)	Political Ecology
CCOM 314	(3)	Communicating Science
ECON 205	(3)	An Introduction to Political Economy
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics

POLI 445	(3)	International Political Economy: Monetary Relations
POLI 474	(3)	Inequality and Development
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 307	(3)	Globalization
SOCI 365	(3)	Health and Development
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both; you may take ENVB 529 or GEOG 201, but not both; you may take one of BREE 217, CIVE 323 or GEOG 322; you may take BIOL 308 or ENVB 305, but not both; you may take BIOL 465 or WILD 421, but not both; you may take COMP 202 or COMP 204, but not both; you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465**	(3)	Conservation Biology
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 518	(3)	Ecological Engineering
CHEM 212	(4)	Introductory Organic Chemistry 1

CHEM 281	(3)	Inorganic Chemistry 1
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
COMP 202**	(3)	Foundations of Programming
COMP 204**	(3)	Computer Programming for Life Sciences
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology

SOIL 300	(3)	Geosystems
WILD 302	(3)	Fish Ecology
WILD 421**	(3)	Wildlife Conservation

7.7.9 Field Studies

Field study semesters are available in Africa, the Canadian Arctic, Barbados, and Panama. For details, see [Study Abroad & Field Studies](#) > *Undergraduate* > [section 12.2: Field Study Semesters and Off-Campus Courses](#). In addition, the Bieler School of Environment offers the Montreal Urban Sustainability Experience (M.U.S.E.), a 6 credit field program offered in Montreal. For further details, see: mcgill.ca/environment/montreal-urban-sustainability-experience.

8 Faculty of Law

8.1 Legal Education at McGill

We do legal education like nobody else

Proudly bilingual; rigorously pluralistic, the McGill Law program breaks the mold for legal education in our fast-paced, globalized world. No other law program reaches further. The McGill program ensures that students gain a cosmopolitan understanding of the law that is not specific to any one jurisdiction.

New Chancellor Day Hall
Montreal QC H3A 1W9
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Faculty Administrative Staff

Claudine Bordenave

Laura Blazs

Sabrina Falco

Katarina Daniels

Manon Berthiaume

Maria D'Amico

Career Development Office, Associate

FST Manager

Accounts Administrator

Liaison Librarian

Senior Administrative Coordinator (Crépeau Centre)

Senior Administrative Coordinator (IASL)

Centre for Research in Air and Space Law

Ram Jakhu; B.A., LL.B., LL.M.(Panjab), LL.M., D.C.L.(McG.)

Interim Director

Paul-André Crépeau Centre for Private and Comparative Law

Mark Antaki; B.C.L., LL.B.(McG.), M.A., Ph.D.(Calif.)

Director

8.1.4 Faculty Members

Teaching Faculty

Wendy Adams; B.A.(Laur.), LL.B.(Tor.), LL.M.(Mich.) (*on leave*)

Kirsten Anker; B.Sc., LL.B., Ph.D.(Syd.)

Mark Antaki; B.C.L., LL.B.(McG.), M.A., Ph.D.(Calif.)

Jonas-Sébastien Beaudry; B.C.L., LL.B. (McG.), LL.M(Harv.), D.Phil.(Oxf.) (*joint appt. with Institute for Health and Social Policy*)

A Helge Dedek;

Andréa Björklund; B.A.(Nebraska), M.A.(NYU), J.D.(Yale) (*L. esabtti*)

Émile Barthelemy; B.A.(Nebraska), M.A.(NYU), J.D.(Yale) (*L. esabtti*)

Teaching Faculty

Vrinda Narain; LL.B.(Delphi), LL.M., D.C.L.(McG.)

Joshua Nichols; B.A.Hons, M.A. (Alb.), PH.D. (Tor.), J.D. Law (B.C.), PH.D. Law(Vic.)

Tina Piper; B.A.Sc.(Tor.), LL.B.(Dal.), B.C.L., M.Phil., D.Phil.(Oxf.)

Johanne Poirier; B.A.(Hons.)(Qu.), B.C.L./LL.B.(McG.), LL.M.(Bruxelles), Ph.D.(Camb.) (*Peter Mackell Chair in Federalism*)

René Provost; LL.B.(Montr.), LL.M.(Calif., Berk.), D.Phil.(Oxf.)

Nandini Ramanujam; B.Sc., M.A., M.Phil.(Bhopal), D.Phil.(Oxf.)

Darren Rosenblum; B.A.(Penn.), J.D.(Penn.), M.I.A.(Col.)

Geneviève Saumier; B.Com., B.C.L., LL.B.(McG.), Ph.D.(Camb.) (*Peter M. Laing Q.C. Professor*) (*sabbatic leave, Jan.1, 2022-Jun.30, 2022*)

Colleen Sheppard; B.A., LL.B.(Tor.), LL.M.(Harv.)

Kerry Sloan; B.A., M.A. (Br. Col.), LL.B. (Calg.), Ph.D.(Vic.)

Lionel Smith; B.Sc.(Tor.), LL.B.(W. Ont.), LL.M.(Camb.), D.Phil., M.A.(Oxf.), LL.B.(Montr.) (*Sir William C. Macdonald Professor of Law*)

Stephen A. Smith; B.A.(Qu.), LL.B.(Tor.), D.Phil.(Oxf.) (*James McGill Professor*)

Shauna Van Praagh; B.Sc., LL.B.(Tor.), LL.M., J.S.D.(Col.)

Catherine Walsh; B.A.(Dal.), LL.B.(New Br.), B.C.L.(Oxf.) (*sabbatic leave, Jul.1, 2021-Dec.31, 2021*)

Daniel Weinstock; B.A., M.A.(McG.), D.Phil.(Oxf.) (*Katherine A. Pearson Chair in Civil Society and Public Policy*)

Peer Zumbansen; LL.B.(Frankfurt), LL.M.(Harv.), Ph.D.(Frankfurt), Habilitation(Frankfurt)

Adjunct Professors

Kenneth Atlas; B.C.L., LL.B.(McG.)

Marc Barbeau; B.C.L., LL.B.(McG.) D.E.A.(Paris I)

Carol Cohen; B.A., B.C.L.(McG.)

Adjunct Professors

Ludwig Weber; Lic iur. Dr. Jur.(Heidel.), LL.M.(McG.)

James Woods; B.A., B.C.L., LL.B.(McG.)

8.2.2 Outline of Academic Regulations

This publication and the Faculty Regulations in force govern students registered in the Faculty of Law during the 2019–2020 academic year. As well, students are subject to changes published in this publication from time to time within the Faculty before Fall registration.

These Regulations, and all others under which the curriculum is administered, are subject to change at any time.

8.2.2.1 Academic Standing

Academic Standing is determined under a credit system as set out in the Faculty Academic Regulations contained in the *Registration Materials* published each academic year. This publication, which is posted on the Student Affairs Office website, mcgill.ca/law-studies/courses, prior to registration opening on Minerva in May, contains the detailed Regulations for the McGill Program. The Faculty is also governed by the University Code of Student Conduct and Disciplinary Procedures, found in McGill's *Handbook on Student Rights and Responsibilities* available at mcgill.ca/students/srr/.

8.2.2.2 Academic Requirements

To be eligible for a Faculty degree, you must complete the required number of credits for that degree within five years of your initial registration in the program, unless you have been granted a leave of absence by the Dean or the Dean's delegate (Regulation 5), or unless you have received permission to pursue your degree on a part-time basis (Regulation 53).

You are not permitted to be enrolled concurrently in a Faculty of Law program and the professional training program of any Bar, whether this program consists of a course of lectures or a period of articling (Regulation 4).

Full-time students at the Faculty must register for at least 12 credits each term, with the exception of your final term, if fewer credits are required to obtain your degree (Regulation 3). You will not receive credit for any course taken to fulfil the requirements of any other degree (Regulation 10).

You should anticipate at least two hours of directed study for every hour of lecture. In addition, you are obliged to write essays, attend seminars, participate in the Legal Methodology Program, and fulfil all other Faculty requirements. You are expected to devote your whole time to your legal studies, and must not undertake other studies during the academic session without prior approval of the Dean or the Dean's delegate.

The Faculty generally follows the University Examination Regulations, and evaluates all students anonymously (Regulations 19 and 22). Examinations and other assignments may be written in either English or French. Examinations are set in the language in which a course is given, but may contain materials in either French or English (Regulation 20).

If you do not pass a session, you will be required to withdraw from the Faculty, subject to your right to apply for readmission to the Faculty (Regulations 49 and 50). For more information, see mcgill.ca/law-studies/law-student-affairs-office.

8.3 Admission to the Legal Profession

The Faculty's Career Development Office (CDO) endeavours to maintain up-to-date information on Bar admission requirements for jurisdictions of interest to the majority of students graduating from the Faculty. However, it is the student's responsibility to ensure that they have fulfilled all requirements of the Bar to which they are applying, including pre-law educational requirements.

8.3.1 Admission to the Legal Profession: Canada

Information on the following Bars/Law Societies can be obtained by consulting their websites. For information on the National Committee on Accreditation, which oversees the transfer from one provincial bar to another, visit the Federation of Law Societies of Canada's website: www.flsc.ca. Transfer to the Quebec Bar is managed by the *Comités des équivalences*: <http://www.barreau.qc.ca/fr/le-barreau/>

Barreau du Québec: www.barreau.qc.ca

Chambre des notaires du Québec: www.cmq.org

École du barreau du Québec: www.ecoledubarreau.qc.ca

Law Society of Alberta: www.lawsociety.ab.ca

Law Society of British Columbia: www.lawsociety.bc.ca

Law Society of Manitoba: www.lawsociety.mb.ca

Law Society of New Brunswick: www.lawsociety-barreau.nb.ca

Law Society of Newfoundland: www.lawsociety.nf

8.3.2 Admission to the Legal Profession: The United States

The J.D. degree is an approved law degree in some U.S. jurisdictions (i.e., NY and MA), and is accepted as the equivalent of a degree in law from an accredited U.S. law school in those jurisdictions. This approval means that McGill graduates may proceed through the Bar admission process in those jurisdictions in the same way as their U.S. counterparts, subject to a “Foreign Legal Education Evaluation” process for the New York Bar.

You can obtain information on the Bar examinations of New York and Massachusetts by consulting the following websites:

The Massachusetts Board of Bar Examiners: <http://www.mass.gov/orgs/massachusetts-board-of-bar-examiners>.

The New York State Board of Law Examiners: www.nybarexam.org.

In addition to requiring a recognized law degree, some states require specific pre-law studies in order for a candidate to be eligible to sit state Bar exams. Students contemplating practice in the United States should ensure as early as possible that they will meet the Bar admission requirements of the jurisdiction in which they intend to practise. Further information on a number of jurisdictions is available in the Career Development Office's online resources.

8.3.3 Language Requirements for Professions

For details on this topic, see [University Regulations and Resources](#) > [Undergraduate](#) > [Admission to Professional and Graduate Studies](#) > [section 1.10.1: Language Requirements for Professions](#).

8.4 Career Development Office

The programs offered by the Faculty of Law prepare students for a wide array of careers in the practice of law and related fields. To enable its graduates to take full advantage of opportunities available to them, the Faculty provides career counselling through its [Career Development Office](#) (CDO). With the assistance of a Career Adviser and an Associate, the Director of the Office—a faculty graduate and lawyer with experience in private practice in Toronto and Montreal and in the provincial public sector—oversees all career development activities, which include assisting students with their search for summer employment and articling positions.

Career development communications, activities, and programs also provide students with information about the various types of career opportunities open to them after graduation.

The CDO also assists employers with their search for candidates by giving them access to [myFuture](#), where they can post positions for free, by organizing on-campus interviews, and by inviting employers to various events.

8.4.1 Resource Centre

The Resource Centre of the Career Development Office (CDO) houses publications related to job search strategies, diversity, employer types, and much more! The CDO also maintains a website full of publications, information, and resources. Students regularly use the online job search tool [myFuture](#) to research employment opportunities in the legal sector and other fields.

Further information is available on the [CDO website](#) and the [myFuture](#) tool.

8.4.2 On-Campus Recruitment

The Career Development Office (CDO; mcgill.ca/cdo) coordinates various recruitment processes throughout the year. Four of these involve On-Campus Interviews (OCIs): one for U.S. employers (August), one for Vancouver and Calgary employers (September), one for Toronto employers (October), and one for Ottawa employers (January). Students can also take part in organized recruitment processes for other major cities in Canada 0 0 1 43.52 568. 505.e07k24>pj0 51 118

- Governance of Commercialized Air Navigation Services
- International Air Carrier Liability

Since 1976, the Centre for Research in Air and Space Law has published the *Annals of Air and Space Law*, a specialized journal devoted to promoting scholarship in the field of air and space law. Published every year as a hardcover book, the *Annals of Air and Space Law* is among the premier periodicals in its field. The Centre has also published several other books and reports in recent years, and held seminars and conferences in Montreal, Bogota, Dubai, Macau, New Delhi, Brussels, Abu Dhabi, Cologne, Singapore, London, Amsterdam, and Dublin.

Further information is available on the [Centre's website](#).

8.6.4 Paul-André Crépeau Centre for Private and Comparative Law

The Paul-André Crépeau Centre for Private and Comparative Law was founded in 1975 and conducts research in the field of comparative private law, with a special focus on jurilinguistics, i.e., the relationship between law and language.

Admissions Policy 0 1 151.667c

8.8.1.3 Indigenous Applicants

McGill Law is committed to recruiting and supporting Indigenous students and we welcome dialogue with prospective BCL/JD applicants. First Nations, Inuit and Métis persons are strongly encouraged to apply to the Faculty of Law, and are invited to self-identify on their application form.

We do not have a separate applicant category for Indigenous students or applicants from other under-represented groups in view of our overall holistic process. However, self-identification allows McGill to inform Indigenous students of specific services and funding opportunities and to assess our progress in the recruitment and retention of Indigenous students. Self-identification includes 'Status,' 'Treaty,' 'Registered,' 'Non-Status,' and 'Non-Registered' Indigenous persons.

Linguistic Support

We acknowledge that our bilingualism admission requirement may represent an added challenge for some Indigenous applicants for whom English or French may be their third language, and potentially perceived as a colonizing influence. Applicants are encouraged not to exclude themselves from applying on linguistic grounds, and are encouraged to speak with us regarding any concerns on this point. Financial support is available to admitted Indigenous candidates who wish to improve their abilities in English or French before starting the program and to continue to address a relative weakness in English or French during legal studies here. This program is generously supported by the McCarthy Tétrault Fund for Language Training. Please contact us to find out more!

Indigenous Student Financial Assistance

McGill has established a [funding program for Indigenous students](#), made possible in part by Indspire, an Indigenous-led registered charity that invests in the education of Indigenous peoples of Canada.

Additional Documentation for Indigenous Applicants

We recognize that Indigenous peoples are distinct from other equity-seeking groups in light of the historical and structural effects of colonialism, and we are sensitive to the varied ways in which Indigenous peoples are affected. For this reason, we are interested in understanding Indigenous applicants' connection to community, or if this connection does not yet exist, the kind of connections the Indigenous applicant would like to build with Indigenous communities in relation to their law school experience.

Indigenous applicants who have self-identified on the application form are required to upload additional documentation to support their connection to an Indigenous community. This documentation should include a statement, separate from the Personal Statement, where you can elaborate on your current connection to the Indigenous community and how this may have affected your educational path and goals. If a connection to the Indigenous community does not exist, we invite you to describe your aspirations for legal education as it relates to the Indigenous community. You may support your statement with documentation indicating your connection to an Indigenous community.

This additional documentation will allow the Admissions Committee to incorporate relevant context in the holistic admission evaluation process and to take into consideration the experiences unique to Indigenous applicants.

Indigenous Research Opportunities

McGill offers Indigenous students the opportunity to study and complete research with a wide range of legal scholars in English and French. The Faculty is host to a vibrant Indigenous Law Association and the [Aboriginal Human Rights Initiatives](#). McGill also gi

8.8.2 Application Process for BCL/JD Degree Program

Law at McGill is a limited enrolment program. Apply as early as possible and ensure that we have received all required supporting documents on or before the appropriate deadline. Files are reviewed only when complete.

8.8.2.1 Online application

Candidates must apply to the BCL/JD program online. The *online application* is available as of September 1. In order to avoid unnecessary processing delays, please read the application instructions carefully. **Please email the Law Admissions Office at the Faculty of Law if you are unable to apply online (transfer applicants).**

Once you have applied, an acknowledgment notice will be sent to the email address indicated on your application within 48 hours. If you have not received your acknowledgment notice within 48 hours following the submission of your application, you should contact the Admissions Office at the Faculty of Law (514-398-6602 or admissions.law@mcgill.ca).

All candidates who submit an online application are asked to complete an anonymous survey once the application has been submitted and paid. By gathering demographic information, this survey plays a key role in our larger effort to remove barriers to legal education, and to build a legal community that reflects the population. Those results give us a better understanding of our pool of applicants, and allow us to assess our recruitment and outreach efforts. The information is collected for statistical purposes only and is not linked to your admission file in any way. The Faculty of Law thanks you in advance for helping us in our efforts by completing our anonymous admissions survey.

8.8.2.2 Verifying the status of your application via Minerva

Your acknowledgment notice will include your McGill Identification (ID), and a password that you will need to log in to the *Minerva* website, where you can monitor the status of your application. As your supporting documents are received and recorded, consult the admissions checklist to see which documents (if any) are missing, incomplete, or illegible. Consult your admissions checklist regularly as new items might be requested to complete your file. It is important to respond to requests for further documentation in a timely manner.

You are responsible for monitoring the status of your application on Minerva. A status of “Items outstanding” means that your application is incomplete. **If your application remains incomplete after the deadline for submission of supporting documents, your application will be cancelled.** However, your application will not be cancelled if only your LSAT score is missing after the deadline. If you plan on writing the LSAT, your application status will remain “Items outstanding” until we get your score, after which your file will be reviewed by the Admissions Committee.

An indication of “Ready for review” means that your file is complete and/or under review by the Admissions Committee.

Applicant categories not leading to BCL/JD degree

- [section 8.8.2.6.7: Visiting Students \(Letters of Permission\)](#)
- [section 8.8.2.6.8: Incoming Exchange Students](#)
- [section 8.8.2.6.6: Comité des équivalences](#)
- [section 8.8.2.6.9: Special Students](#)

8.8.2.6.1 University Applicants

A University applicant to McGill's Faculty of Law must be on track to complete their degree or have a minimum of 60 credits of undergraduate studies before starting their law studies. This category includes applicants who, at time of registration, will have completed more than 30 credits in addition to a Diploma of Collegial Studies (DCS).

While candidates who have completed 60 credits are eligible to apply to the BCL/JD program, applicants who are not on track to complete their degree before starting their law studies are unlikely to be offered admission.

8.8.2.6.2 Mature Applicants

Mature applicants are those who have interrupted their formal education for a minimum of five years, which do not have to be consecutive. Candidates who qualify as Mature must apply in this category. There is no predetermined number of Mature candidates admitted in a given year

- The online application is available from September 1 until November 1 for this category, even though the deadline for submitting an application is May 1. To submit a paper application under this category after November 1, please contact admissions.law@mcgill.ca.

8.8.2.6.6 Comité des équivalences

The Faculty accepts applications from candidates who hold a law degree from a Canadian or foreign university recognized by McGill and who are seeking to fulfil the requirements of the *Comité des équivalences* of the *Barreau du Québec* or of the *Chambre des notaires*, in order to practice in Quebec. Successful applicants must have the final decision of the *Comité des équivalences* of the *Barreau* or the *Chambre des notaires* in hand at the time of registration. Candidates must submit their equivalency application from the *Barreau du Québec* or the *Chambre des notaires* before our deadline for supporting documents.

Please note that:

- This is a **non-degree program**. Courses taken by *Comité des équivalences* students cannot be credited toward a McGill law degree. Students wishing to obtain the BCL/JD degrees should apply under the [section 8.8.2.6.4: Advanced Standing Students](#)

- LAWG 101D1/D2 Extra-Contractual Obligations/Torts
- LAWG 102D1/D2 Criminal Justice
- LAWG 110D1/D2 Integration Workshop
- LAWG 210 Legal Ethics and Professionalism
- LAWG 220D1/D2 Property
- PRAC 200 Advocacy
- PROC 124 Judicial Institutions and Civil Procedure
- PUB2 101D1/D2 Constitutional Law
- PUB3 116 Foundations

In addition, the following undergraduate complementary courses are **not** open to Special Students:

- PROC 200 Advanced Civil Law Obligations
- PRV3 200 Advanced Common Law Obligations

8.8.2.7 Application Deadlines for Law Undergraduate Programs

The online application is available as of **September 1**. Deadlines vary by applicant category. Applicants must take the time to identify the category in which they must apply. Applicants are responsible for ensuring that the online application is completed by the deadlines indicated below and that all supporting documents are uploaded via *Minerva* by the deadlines listed below. Instructions on uploading documents can be found at [section 8.8.2.8: Application Supporting Documents](#). With the exception of references (which must be submitted in accordance with specific instructions for referees) and some transcripts, all supporting documents **must** be uploaded via *Minerva*. We **strongly encourage** emailing rather than mailing references.

Deadlines must be respected. Late applications are not accepted. There are no exceptions. Applicants are strongly encouraged to apply and submit all required supporting documents as early in the process as possible and in advance of their relevant deadlines.

Incomplete applications will not be circulated to the Admissions Committee. Incomplete applications will be cancelled the day following the supporting document submission deadlines.

Please refer to [section 8.8.2.6: Applicant Categories](#) in order to determine which deadline applies to you.



Note: First-year, Transfer, and Advanced-Standing students may only enter the program in September.

First Year (Fall)	Online Application Deadlines	Supporting Document Deadlines
University	November 1	November 8
Mature	November 1	November 8
CEGEP/Baccalaureate (<i>Collège international Marie de France</i> and <i>Collège Stanislas</i>)	March 1	March 7
Applicants to Upper Years	Online Application Deadlines	Supporting Document Deadlines
Advanced Standing (Fall)	November 1	January 15
Transfer (Fall)	May 1	June 15
<i>Comité des équivalences</i> (Fall entrance)	May 1	July 1
<i>Chambre des notaires</i> (Fall entrance)	May 1	July 1
Special (Fall entrance)	August 1	August 8
Visiting (Fall and/or Winter)	May 1	June 15
Incoming Exchange (Winter)	September 15	October 1
Incoming Exchange (Fall)	April 15	May 1
Incoming Exchange (Winter)	September 15	October 1
<i>Comité des équivalences</i> (Winter entrance)	October 1	December 1
<i>Chambre des notaires</i> (Winter entrance)	October 1	December 1
Special (Winter entrance)	December 1	December 8

8.8.2.8 Application Supporting Documents

Applicants **must upload** supporting documents via *Minerva* after having completed the online application (after having received the acknowledgment notice via email). Not all documents may be uploaded via *Minerva*. See [section 8.8.2.8.1: Uploading supporting documents](#) below.

Applicants have three different ways to submit their transcripts:

1. Transcripts for studies undertaken in Quebec universities may be submitted electronically via the BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ) system. Applicants have to contact the registrar of their home university and ask for this arrangement.
2. All other transcripts **must** be uploaded via *Minerva*. Transcripts received in this manner are considered unofficial. Applicants will only be asked for official transcripts if and when offered admission to the program. **Our offer of admission will be contingent upon the receipt and verification of these official documents.** If you have uploaded unofficial transcripts, you are not required to submit official transcripts until we request them from you.
3. If submitting official transcripts, to be considered official, these must be submitted in an envelope sealed by the Office of the Re

Practical tips

Read our mcgill.ca/law/bcl-jd/admissions-guide/admissions-policy Admissions Policy to get a sense of what we look for in our admitted students.

Before writing, reflect critically on your motivations, your interests, and your convictions, and their connection to our program. Do some research on our law faculty and others. Law faculties all tend to have their own strengths and particularities. Doing some research may help you identify and articulate why you are interested in studying at McGill in particular.

The Personal Statement should not be used as a vehicle for narrating or repeating your CV. You have a limited amount of writing space; make it count. Do not repeat aspects of your candidacy that the Committee will see in other documents unless these aspects are directly linked to your interest in studying law at McGill. Be authentic. Be yourself. Don't be afraid to be original, but be careful not to sacrifice substance.

You may submit your Personal Statement in English, French, or both. It is important that you write the statement in whatever of the two language(s) you are most comfortable expressing yourself. It is not recommended to use the Personal Statement as a way to establish your bilingualism unless you are very comfortable expressing yourself in the other language.

Importantly, make sure that your Personal Statement follows our formatting guidelines (see below) and that it has grammatical integrity. Only one submission of the Personal Statement is accepted so it is important to submit the Personal Statement in its final version of both format and substance. Indigenous applicants are invited to submit additional documentation in addition to the Personal Statement. Please see the [Indigenous Applicants](#) page for more information.

Format

The format of the Personal Statement must adhere to the following basic characteristics:

- Maximum of 750 Words (Include a word count at the end of your Personal Statement.)
- Indicate your name and McGill ID (found in the Minerva acknowledgment notice) at the top right corner of all pages.
- Candidates who have applied to the Faculty in the past must submit a new Personal Statement with any new application. Re-applicants who make no substantive changes to their Personal Statement from one application to the next are unlikely to be viewed as competitive.

8.8.2.8.5 Extenuating Circumstances

If you have experienced serious medical or personal difficulties that have had an impact on your academic performance, you may submit a separate letter to explain the impact of these extenuating circumstances on your academic record. If appropriate, applicants may include supporting documentation such as a medical certificate.

By allowing you to provide an explanation for circumstances beyond your control that may have impacted your academic transcripts, the extenuating circumstances letter will let you to focus your Personal Statement on your motivations for studying law.

Applicants who are students, or who have recently completed programs of study, are expected to provide academic references from current or recent professors or teachers who are familiar with their work. Applicants in the CEGEP and Quebec French Baccalaureate (*Collège international Marie de France* and *Collège Stanislas*) category are expected to submit two references from CEGEP or college professors.

Applicants who are unable to obtain academic references because they are no longer students should submit references from individuals who are well placed to evaluate the applicant's academic abilities such as critical reading, research, and writing; these may be professional references, but ought to be from a person who is in a supervisory position vis-à-vis the applicant.

It is highly recommended that candidates also review the [Instructions and form for referees](#) to think of referees who might best be able to respond to the questions asked.

Personal references are not helpful.



Note: The Law Admissions Office does not contact your referees to solicit their references.

8.8.2.8.7.1 Requirements

The candidate **must send a copy of the Instructions and form for referees** to ensure that the references meet the formatting requirements set out by the Faculty's Admissions Office. The *Instructions for applicant referees and reference form* is available under [Instructions and form for referees](#).

The candidate must send referees the link to [Instructions and form for referees](#). The Admissions Office does not contact referees to invite them to complete the reference form. On the *Instructions for referees* page, referees may download the Reference form which they must complete and email directly to the Admissions Office.

The candidate must inform their referees what category of admission they are applying under. It is the candidate's responsibility to ensure that Reference forms are received by the Admissions Office by the applicable deadline.

The Admissions Office does not confirm receipt of references with the referee via email. Applicants are instead encouraged to verify the status of their documents via their Supporting Documents Checklist in Minerva.

Re-applicants

Re-applicants may choose to either re-use references submitted in previous applications or choose new referees and have them submit new references. If you wish to re-use references, simply fill in the names of the same referees in the on-line application and the references from your previous application will be carried forward.

8.8.2.8.8 Law School Admission Test (LSAT)

Applicants are not required to take the LSAT. However

Applications from candidates who register for the January LSAT of the year for which they seek admission will be reviewed by the Admissions Committee only when all required elements, including the January LSAT score, are received. Given the passing of several months since the application deadline, candidates who register for the January LSAT risk that, by the time the Committee reviews their application, there will no longer be a place to offer even if the Committee wishes to admit.

Processing of LSAsfer e

8.10.4.1 Legal Information Clinic at McGill

The Legal Information Clinic at McGill (LICM) is a non-profit, student-run, bilingual, and free legal information service. Our mandate is to provide legal information, referral and document certification services to the McGill and Montreal communities, with a continuing commitment to meeting the needs of marginalized groups. Students who have completed their first year at the Faculty of Law are eligible to volunteer, but all McGill students are entitled to receive our services for free! For further information, contact:

Legal Information Clinic at McGill
SSMU Building
3480 rue McTavish, Room 107
Montreal QC H3A 0E7
Telephone: 514-398-6792
Website: licm.mcgill.ca

8.10.4.2 Contours

Contours is a project based at the McGill Faculty of Law that aims to map and shape the contours of debates, experiences, concerns, and aspirations through written and artistic exploration of the intersection of women and law. Founded in 2012, the student-run magazine is a space for women's voices and an invitation for us all to start a conversation. *Contours* is published annually and welcomes contributions in English and French from students and faculty. Nous accueillons des réponses argumentatives et émotionnelles, théoriques et expérientielles, par écrit et de l'art, parce que nous croyons que toutes ces formes d'expression sont utiles pour développer notre compréhension des intersections entre les femmes et le droit à différents niveaux.

8.10.4.3 Graduate Law Student Association

The *Graduate Law Students' Association* (GLSA) is an Association with an Executive Board composed of five graduate students, who represent all Law graduate students at both the Faculty of Law and the Post-Graduate Students Society of McGill University (PGSS).

legal traditions. Today the Journal is recognized as an important forum for the critical analysis of contemporary legal issues in the realms of public, private, and international law.

8.10.4.9 McGill Journal of Dispute Resolution

The MDJR is a peer-reviewed academic journal founded in 2014 that publishes articles on domestic and international alternative dispute resolution ("ADR").

8.10.4.10 Pro Bono Students Canada

Pro Bono Students Canada (PBSC) was founded in 1996 at the University of Toronto Faculty of Law. Since then, PBSC has expanded to have chapters in all 22 Canadian law schools. Each year across Canada, 1,600 PBSC law student volunteers provide approximately 140,000 hours of free legal services to over 400 public interest and other community organizations, courts and tribunals. PBSC is the only national student program in Canada, the only national pro bono program in the country, and the only national pro bono service organization anywhere in the world. PBSC McGill began in 2000 and has been going strong since then. During the 2012-2013 school year, PBSC McGill had 91 law student volunteers who worked with and provided legal services to 32 different community organizations across Montreal.

8.10.4.11 *Quid Novi*

Quid Novi is the weekly newspaper of the McGill Faculty of Law, and is published and financially supported by the Law Students' Association. It covers events and legal issues, both inside and outside the Faculty. Content ranges from wit and satire to investigative journalism, from poetry to front-page news stories, and from political commentary to humorous contests.

8.10.4.12 Skit Nite

Skit Nite is an annual theatrical event produced and performed by la

8.12.1 Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) Law (105 credits)

At the Faculty of Law, students pursue an integrated program of studies which qualifies them for the Bar Admission Programs in all Canadian provinces. The Faculty grants concurrently both its degrees - Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) - to candidates who have successfully completed 105 credits.

Students should consult the Faculty website for updates: <http://www.mcgill.ca/law-studies/>.

Required Courses (47 credits)**First Year**

The following 33 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 103	(3)	Indigenous Legal Traditions
LAWG 110D1	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116	(3)	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

Any Year

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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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

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State	
CMPL 504 MP1 504	(3)	Feminist Legal Theory	
CMPL 541 MP1	(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	Disc 565
		Indigenous Field Studies	

CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LAWG 561	(3)	Privacy Law
LAWG 581	(3)	Law and Healthcare
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

46 credits.

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 105-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- writing a term essay under independent supervision, for credit, within the Faculty of Law;
- 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.

8.12.2 Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) Honours Law (120 credits)

The B.C.L. and J.D. with Honours program is open to students who have completed four terms of study at the Faculty of Law and who, during that time, have maintained a GPA of 3.0. Students must complete 15 credits of Honours Thesis courses in addition to the 105 credits required in the B.C.L. and J.D. program. Conditional upon submission and approval of an Honours Thesis, students will be granted a B.C.L. and J.D. with Honours.

Required - Honours Thesis Courses (15 credits)

WRIT 450	(3)	Honours Thesis 1
WRIT 451	(6)	Honours Thesis 2
WRIT 452	(6)	Honours Thesis 3

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice

LAWG 102D2	(3)	Criminal Justice
LAWG 103	(3)	Indigenous Legal Traditions
LAWG 110D1	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116	(3)	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

Any Year

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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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

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State
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

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.

8.12.3 Bachelor of Law (B.C.L.) / Juris Doctor (J.D.) with Major Concentration Law with Major Concentration Commercial Negotiation and Dispute Resolution (123 credits)

The B.C.L. and J.D. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in Commercial Negotiation and Dispute Resolution is articulated around a synthetic skill set driven by the transversal theme

CMPL 543	(3)	Law and Practice of International Trade
CMPL 568	(3)	Extrajudicial Dispute Resolution
CMPL 574	(3)	Government Control of Business
LAWG 200	(3)	Commercial Law
LAWG 400	(4)	Secured Transactions
LAWG 500	(3)	Complex Legal Transactions 1
LAWG 511	(1)	Specialized Topics in Law 1
LAWG 512	(1)	Specialized Topics in Law 2
LAWG 513	(2)	Specialized Topics in Law 3
LAWG 514	(2)	Specialized Topics in Law 4
LAWG 515	(3)	Specialized Topics in Law 5
LAWG 516	(3)	Specialized Topics in Law 6
LAWG 517	(3)	Specialized Topics in Law 7
LAWG 518	(3)	Specialized Topics in Law 8
LAWG 521	(3)	Student-Initiated Seminar 1
LAWG 522	(3)	Student-Initiated Seminar 2
LEEL 369	(3)	Labour Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV5 483	(3)	Consumer Law
PUB2 517	(3)	Corporate Taxation

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 293	(3)	Managerial Economics
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGPO 383	(3)	International Business Policy
MGPO 440	(3)	Strategies for Sustainability
MGPO 445	(3)	Industry Analysis and Competitive Strategy
MGPO 450	(3)	Ethics in Management
MGPO 460	(3)	Managing Innovation
MGPO 468	(3)	Managing Organizational Politics
MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization
MGPO 567	(3)	Business in Society
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 420	(3)	Managing Organizational Teams

Non-Law Courses - Political Science

POLI 243	(3)	International Politics of Economic Relations
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The essay must be written on a subject related to International Human Rights and Development.

Non-Law Courses - Economics

ECON 223	(3)	Political Economy of Trade Policy
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 316	(3)	The Underground Economy
ECON 426	(3)	Labour Economics

Non-Law Courses - Geography

GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

Non-Law Courses - International Development

INTD 200	(3)	Introduction to International Development
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Non-Law Courses - Management

MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
ORGB 380	(3)	Cross Cultural Management

Non-Law Courses - Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 345	(3)	International Organizations
POLI 351	(3)	The Causes of Major Wars
POLI 354	(3)	Approaches to International Political Economy
POLI 362	(3)	Political Theory and International Relations
POLI 474	(3)	Inequality and Development
POLI 522	(3)	Seminar: Developing Areas

Non-Law Courses - Sociology

SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 370	(3)	Sociology: Gender and Development
SOCI 484	(3)	Emerging Democratic States
SOCI 519	(3)	Gender and Globalization
SOCI 550	(3)	Developing Societies

8.12.5 Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) with Minor Law (with Minor) (123 credits)

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
		CrimD2

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

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State
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

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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

MGCR 638	(1.5)	Marketing Management
MGCR 639	(1.5)	Managing Organizational Behaviour
MGCR 640	(1.5)	Accounting and Financial Reporting
MGCR 642	(1.5)	Financial Reporting
MGCR 660	(4.5)	International Study Trip

Elective Courses (15 credits)

15 credits of courses are chosen from 600-level courses offered by the F

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)

CMPL 500	(3)	Indigenous Peoples and the State
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
LAWG 508D1	(3)	Indigenous Constitutionalism
LAWG 508D2	(3)	Indigenous Constitutionalism
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
	(3)	Public International Law

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 515	(3)	Tax Policy
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses (34 credits)

Students must take 34 other elective courses, offered within the Faculty or approved as credit equivalencies in order to complete the 93-credit degree

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 or 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.

8.12.7 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)

A joint Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and J.D. degrees for a total of 132 credits.

Required Courses - Social Work (30 credits)

SWRK 643	(3)	Research Methods 2
SWRK 650	(3)	Field Work Practicum 1
SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3
SWRK 691	(12)	Social Work / Law Independent Study Project

Complementary Courses - Social Work (15 credits)

Students complete 15 credits of SWRK courses at the 500 or 600 level. Up to 6j1 0t90.672 Tm(w complete olTj1 0 0 1 285.838 722 Tm(w omplemS708 453. 0l Tm(or

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
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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

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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

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8.13 Undergraduate Selection of Course Concentrations (Law Programs)

Sev

12. Advocacy and the Legal Profession

Advocacy (PRAC 200)

Civil Litigation Workshop (PROC 459)

Criminal Procedure (PUB2 422)

Evidence (Civil Matters) (LAWG 415)

Evidence (Criminal Matters) (LAWG 426)

Extrajudicial Dispute Resolution (CMPL 568)

Judicial Institutions and Civil Procedure (PROC 124)

Legal Ethics and Professionalism (LAWG 210)

Trial Advocacy (PUB2 420)

9 Desautels Faculty of Management

9.1 About Desautels Faculty of Management

Founded in 1906, the Desautels Faculty of Management at McGill University is ranked as one of the world's top international business schools by *Businessweek*, *Canadian Business*, *Forbes*, and *The Economist*. The Faculty's innovative programs and historic reputation for excellence continue to attract the finest students and the most prominent professors from around the globe, as well as the most demanding recruiters from the world's top employers.

Desautels houses numerous research centres and academic programs at the undergraduate, masters, executive, and PhD levels. The curriculum is built on an integrated, interdisciplinary model that combines research, practice, and teaching. This v

The Concourse and second floor are entirely dedicated to Desautels undergraduate students, featuring medium- and large-sized classrooms, modern computer labs, and large student-living areas. Both floors include a suite of offices for Desautels undergraduate student clubs as well as facilities for social activities. In addition, a small student-run shop, known as Dave's, is located in the Concourse; it is dedicated to a former classmate.

Majors and **honours** programs are available to those wishing to focus primarily in one area to get maximum exposure to a chosen field. This option is for students with clearly defined career objectives, or those interested in further professional training, such as a CPA or CFA designation.

In the **Major in International Management**, students have a chance to pursue interdisciplinary global studies. All students in this Major will complete the requirements of the International Business Concentration as well as a Minor outside of the Management Faculty; learn an additional language (achieving intermediate level); and fulfill the experiential learning component by:

1. going on exchange or a study away; **or**
2. submitting a research paper (3 credits); **or**
3. participating in an international internship (3 credits).

Exchange and study away grant credits depending on the number of courses taken abroad.

The **Honours in Investment Management** program is the first to offer students training that combines rigorous academic groundwork with real-world experience in investment management, global internship opportunities, and access to the expertise of corporate partners from around the world.

9.6 BCom Degree Requirements

The Bachelor of Commerce (BCom) degree program is a three- or four-year program when taken full-time. Although the language of instruction at McGill is English, those who plan to be part of the Quebec business environment are reminded of the importance of competence in both written and oral French. Students may submit assignments and write exams in French.

9.6.1 Academic Requirements for Graduation

Each student in the Desautels Faculty of Management must be aware of the Faculty regulations as stated in this publication and on the McGill and BCom websites. While BCom Office Advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of course selection and registration, for compliance with and completion of program and degree requirements, and for the observance of regulations and deadlines **rests with you**. It is your responsibility to seek guidance from the BCom Student Affairs Office if in any doubt; misunderstanding or misapprehension will not be accepted as cause for any exception from any regulation, deadline, program, or degree requirement.

For students entering with a Quebec CEGEP Diploma, the number of credits is generally 90. Students from outside the province of Quebec who have not completed the equivalent of a CEGEP Diploma are required to complete 120 credits.

Students Entering with Advanced Standing

All students admitted with Advanced Standing must meet with a BCom Adviser. It is your responsibility to ensure that ALL appropriate official results are provided to McGill and that your McGill transcript accurately reflects the minimum credit requirement. This must be finalized by the end of your first term at McGill. Delays to submit all official documentation may result in the advanced standing not being granted.

It is your responsibility to make sure that your course of study conforms with the curriculum requirements as described in this publication. If you want to deviate from your program, you must obtain written permission from the Director, BCom program.

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If you are a **General Management** student choosing to do a minor in another faculty as your second area of study, you should meet with the appropriate department adviser to plan your courses. **It should be noted that minors must have a minimum of 18 credits not overlapping with other program requirements.**

If you are taking the Minor, Major, or Honours in **Economics**, you must see an adviser in the BCom Student Affairs Office for approval of your program and course selection after meeting with an Economics Adviser.

If you are in the Major Concentration or Minor in Mathematics, or Statistics, you must have your program of study initially authorized by the appropriate department adviser prior to consulting with a student adviser in the *BCom Student Affairs Office*.

You should contact a student adviser as soon as possible if you are encountering difficulties (academic or personal) or are requesting specific information about the BCom program.

9.6.5 Registration

- It is your responsibility to **register on time**. Failure to register for courses when the registration period begins may delay graduation and completion of program requirements. **Space is limited.**
- **Priority registration** for Fall and

Careful consideration should be given before using this option as it can affect scholarship and award consideration, where a minimum of 27 graded credits are required for the year, e

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which you have deferred examinations and Fall-term grades for courses that span the Fall and Winter terms do not affect your Academic Standing for the Fall term, even though they will ultimately affect your Fall TGPA. Therefore, Academic Standings for the Fall term are designated as “Interim.” **Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions.**

If you are not in Satisfactory Standing, you are strongly advised to consult with an Academic Adviser in the *BCom Student Affairs Office* about your course selection before the withdrawal deadlines.

9.6.9.1 Satisfactory/Interim Satisfactory Standing

If you are in Satisfactory Standing, you may continue in your program.

- New students are admitted to Satisfactory Standing.
- Students with a CGPA of 2.00 or greater are in Satisfactory Standing.
- You must obtain a minimum CGPA of 2.00 to be considered for graduation with a McGill degree.

9.6.9.2 Probationary/Interim Probationary Standing

If you are in Probationary Standing, you may continue in your program, but must carry a reduced load (maximum 14 credits per term) and raise your TGPA and CGPA to return to Satisfactory Standing (see above). You must see an Academic Adviser to discuss your course selection.

If you are in Interim Probationary Standing, you may continue in your program, but should evaluate your course load and reduce it as appropriate. You are strongly advised to consult with an Academic Adviser, before the withdrawal deadlines, about your course selection for the Winter term.

- If you were previously in Satisfactory Standing, you will be placed in Probationary Standing if your CGPA falls between 1.50 and 1.99.
- If you were previously in Probationary Standing, you will remain in Probationary Standing if your CGPA falls between 1.50 and 1.99 and your TGPA is 2.50 or higher (although the TGPA requirement will not apply to the Summer term).
- If you were previously in Interim Unsatisfactory Standing, you will be placed in Probationary Standing if your CGPA is 2.45A 1 709.12 Tm(e)Tj 461tan63bet52 45w

If your Standing changes to Unsatisfactory and you wish to ask for permission to continue in your program, you must meet with your Academic Adviser as soon as you are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (i.e., medical or other documentation) along with reassurances of future improvement.

9.6.10 Time and Credit Limit for Completion of the BCom Degree

If you need 90 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the BCom degree. If you are a student completing over 90 and up to 120 credits, you become subject to these regulations one year after your initial registration.

If you wish to return to the BCom program after interrupting your studies for a period of one year or more, you must make a request for readmission through Minerva and also apply in writing to bcom.mgmt@mcgill.ca. When you are readmitted after a period of absence, you are normally subject to the program and degree requirements in effect at the time of readmission.

9.7 Grading and Credit

During the first week of lectures, each instructor will provide you with a written course outline that should include:

- Grading guidelines;
- A description of the topics to be considered in the course;
- A list of required or recommended textbooks and reading materials;
- A grading scheme or description of the methods of evaluation to be used in the course, along with due dates for assignments and dates/times of exams. All term work must be assigned early enough in the term for students to complete the assignment(s) by the last day of class. The due date for term work must be no later than the last day of classes. Changes in the distributed grading scheme are permitted only with the unanimous consent of all students registered in the course. In practice, therefore, the grading scheme is almost never changed during the term;
- The instructor's office hours for students, office location, telephone number for office appointments, and secretarial contact information;
- Academic Integrity statement: **McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism, and other academic offences under the *Code of Student Conduct and Disciplinary Procedures* (see mcgill.ca/students/srr/honest for more information).** Note that all newly admitted undergraduate students are required to complete the Academic Integrity tutorial through *Minerva*.

9.7.1 Examinations

For information about final examinations and deferred examinations, also see [University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information](#).

Final examinations are centrally administered by Enrolment Services. Around the beginning of November and March, a final examination schedule will be posted on the [McGill Exams website](#) by Enrolment Services. The seating arrangements are posted on the McGill website toward the end of the last week of classes.

BCom students and non-Management students taking BCom courses are contacted by Enrolment Services via McGill email regarding final exam conflicts. Arrangements to resolve final exam conflicts are made and communicated by Enrolment Services via McGill email as well. You should also refer to the [BCom website](#) for more information, or contact Enrolment Services [Service Point](#). Students are warned not to make travel arrangements to leave Montreal prior to the posting of the official final examination schedule.

BCom courses cannot have examinations scheduled during the last two weeks of term worth more than 10% of the final grade. You must repeat any grades of D or F in core courses or courses as part of a concentration, minor, major, or honours program. However, D is a passing grade for elective courses.

9.7.1.1 Supplemental Examinations

Supplemental examinations are not offered in undergraduate courses administered by the Desautels Faculty of Management. If you are required to improve your standing in a course, you must repeat the course in a subsequent term, completing all course requirements to the satisfaction of the instructor. Faculty policy does not allow you to do additional work to improve your standing in a course.

9.7.1.2 Deferred Examinations

For missed final examinations, whatever the reason may be, professors and students are **not** to make alternate arrangements. If you are unable to write your final exam due to illness or another serious reason, you may apply for a deferral of your exam through your [Minerva](#) account, and if your application is accepted, you will be permitted to write it during the next deferred examination period.

To qualify, you must obtain documentation (such as a doctor's note) explaining your inability to write the exam, which must be dated within **5 days of the exam**, and bring it to the BCom Office as soon as possible after the exam. The application and supporting documentation must be submitted no later than **January 15** (for Fall courses) or **May 15** (Winter and Fall-Winter courses).

The BCom Office will then review the reasons for which the exam was missed and decide whether to allow you to write a deferred final exam. If approved, you will write the final exam during the University's official deferred exam period—specific dates in March (Fall terms) and August (Winter and Summer terms). It is up to you to verify the deferral schedule, which is administered by the Registrar.

It is recommended that students who have been approved for deferred exams meet with an academic adviser.

9.7.2 Verification of Grades and Rereads

In accordance with the Charter of Student Rights, and subject to its stated conditions, you have the right to consult any written submission for which you have received a mark and the right to discuss this submission with the examiner.

In a case where you feel that an error has been made in arriving at the final grade, a [Re-Read Application Form](#) must be completed in the BCom Student Affairs Office, requesting the instructor to carry out a detailed check that all questions have been marked, and that the final grade has been computed correctly on the basis of the term work, final examination, etc. However, during the course of the term, any requests to have term work re-evaluated should initially be made directly to the instructor.

The Desautels Faculty of Management recognizes two types of rereads or reassessments:

- reread of coursework (term papers, mid-terms, assignments, quizzes, etc.)
- reread of a final exam

In both cases, rather than recorrect the work and then grade it as they would have done themselves, reviewers assess the appropriateness of the original grade based, for example, on the application of the grading key to the student's work. If a grade is deemed unfair, it is changed, whether the new grade is higher or lower than the original, i.e., the reviewer's grade takes precedence over the original grade.

9.7.2.1 Reread of Coursework

You may apply to the BCom Student Affairs Office for rereads of written coursework. You are assessed a fee for such rereads; consult the Student Accounts [website](#) for specific fee amounts. Requests for rereads involving group work require the consent of all members of the group, but only one reread fee will

- Jaclyn Fisher Volunteer Leadership Award
- Stephen S. Goldbloom Memorial Prize

In-Course Scholarships, Prizes and Awards

In-course scholarships are granted to registered students with 27 graded credits in the fall and winter terms or 14 graded credits in one term at McGill. Eligible students are automatically considered by the Undergraduate Scholarships Committee for any award that is based solely on academic or program-related criteria. The following in-course scholarships are based on a combination of academic, volunteer, leadership, and extra-curricular involvement and require an application. Students must apply online on the BCom webpage by the early June deadline: mcgill.ca/desautels/programs/bcom/current-students.

In-course scholarships for students returning for full academic year of studies:

- Commerce '55 Scholarships
- Danny and Monica Gold Award for Academic Excellence
- Donald R. McRobie Award
- Dr. Alex Paterson Scholarship
- Great-West Life & London Life Scholarship
- HSBC Bank Canada Management Awards
- Laurentian Bank Scholarships
- Marcel A. Desautels Leadership Scholarship
- Marion McCall Daly Award
- Paul-Hervé Desrosiers Scholarship in Entrepreneurial Studies
- Peter Brojde Scholarship
- Philippe & Nan-B de Gaspé Beaubien Citizenship Prize (awarded in odd years only)
- Sheila Wellington BMO Financial Group Awards
- Shirin Yeganegi Memorial Scholarship

To be awarded a scholarship students must be enrolled full-time in the subsequent fall and winter terms in the BCom program. If they are going on exchange in one of the following terms they must be full-time in the term they are at McGill. Students graduating in the summer or fall term are not eligible for in-course awards but may apply for graduating awards the following spring. Students who do not meet an

9.8.1 BCom Program Credit Structure: General Management Program (Concentrations)

Majors in Management	90 credits	120 credits
Major	30	30
Non-Mgmt Electives	6	9
Electives	15	24
Total	90	120

Major Concentrations in Mathematics or Statistics	90 credits	120 credits
Math Freshman Requirements: MATH 140, MATH 141, & MATH 133	0	10
Freshman Requirements	0	17
BUSA 250	3	3
Core	33	33
Major	39	39
Electives	15	18
Total	90	120

Major in Economics	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core*	27	27
Major**	36	36
Electives	24	36
Total	90	120

* MGCR 271 Business Statistics is counted toward the 36 credits of the Major, not core.

** MGCR 293 & ECON 295 in core are exempted by the required ECON courses within the Major.

Major in International Management	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
International Business Concentration Component	15	15
Area of Study Component: Minor Concentration	18	18
Language Component	9-12	9-12
Experiential Learning Component *	0-3	0-3
Electives	6-9	18-21
Total	90	120

* Going on exchange grants the credits for the approved courses taken abroad; it does not grant an additional 3 credits.

Major in Managing for Sustainability	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
Major	39	39
Electives	12	24
Total	90	120

9.8.3 120-Credit Program, Freshman Course Distribution

Students admitted to a program requiring 97 to 120 credits (four years) register in a Freshman Year in which they must complete MATH 122, MATH 123, and BUSA 250 in their first year of study, as well as Electives.

30 Credits

U0 Required Courses - 9 Credits

U0 Required Courses (9 credits)		
MATH 122	(3)	Calculus for Management
MATH 123	(3)	Linear Algebra and Probability
BUSA 250	(3)	Expressive Analysis for Management

U0 Elective Courses - 21 Credits

All Electives are subject to the restrictions for non-Management electives. mcgill.ca/desautels/programs/bcom/academics/programstructure/electives

A minimum grade of C is required for all courses in U0.

Students may choose to replace up to 6 credits of electives above by selecting core courses from the following:

- MGCR 222 Introduction to Organizational Behaviour (3)
- MGCR 293 Managerial Economics (3)
- MGCR 331 Information Systems (3)
- MGCR 352 Principles of Marketing (3)

9.8.4 Management Core

All BCom students take the 36-credit core curriculum set out below, except where modifications are specifically required by a major or honours program. A grade of C or better is required for all core courses. If a D is obtained in a core course, the course must be repeated.

9.8.4.1 Core Course Distribution

Required Courses (36 credits)		
ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Program Footnotes:

Students considering the following programs:

- **Major in Mathematics or Major and Minor in Statistics:**
 - replace MGCR 271 with MATH 324 (prerequisite: MATH 323)
- **Honours or Joint Honours Program in Economics:**
 - replace MGCR 271 with ECON 257D1/ECON 257D2

- replace MGCR 293 with ECON 250D1/ECON 250D2
- replace ECON 295 with ECON 352D1/ECON 352D2 (tak

ACCT 486 (3) Business Taxation 2

9.8.5.2 Bachelor of Commerce (B.Com.) - Concentration in Business Analytics (15 credits)

Students completing this concentration will have training in a diverse set of methods in analytics and tools to conduct analyses as applied in a variety of managerial disciplines. Today, business professionals, managers, and entrepreneurs need to be able to leverage the power of data that is collected. The Business Analytics concentration provides students with essential skills and knowledge needed to navigate in the world of data. This Concentration offers courses with a strong practical and applied orientation from a variety of managerial disciplines.

Required Courses (6 credits)

INSY 336 (3) Data Handling and Coding for Analytics
 MGSC 401 (3) Statistical Foundations of Data Analytics

Complementary Courses (9 credits)

3 credits from the following:

INSY 446 (3) Data Mining for Business Analytics
 MGSC 404 (3) Foundations of Decision Analytics

Revision, April 2021. Start of revision.

6 credits from the following:

ACCT 451 (3) Data Analytics in Capital Market
 BUSA 471 (3) Artificial Intelligence Ethics for Business
 FINE 460 (3) Financial Analytics
 INSY 442 (3) Business Intelligence and Data Analytics
 INSY 446 (3) Data Mining for Business Analytics
 INSY 448 (3) Text and Social Media Analytics
 INSY 463 (3) Deep Learning for Business Analytics
 MGSC 404 (3) Foundations of Decision Analytics
 MRKT 440 (3) Marketing Analytics
 MRKT 442 (3) Customer Analytics
 ORGB 330 (3) People Analytics

Revision, April 2021. End of revision.

9.8.5.3 Bachelor of Commerce (B.Com.) - Concentration in Entrepreneurship (15 credits)

This concentration is designed to provide students with an understanding of the key concepts and processes involved in starting and managing new ventures. It combines rigor with relevance, as all students will complete a major field project, thus providing an opportunity to apply the concepts acquired in the classroom. The concentration is multidisciplinary and integrative, as it includes courses from across areas in the Faculty. Upon completing the concentration, students will understand how to conceptualize, develop, and manage successful new ventures. The concentration is appropriate for students interested in a wide variety of new ventures, from for-profit private companies to social enterprises and cooperatives.

Students in Continuing Studies: This program is Currently under review. Admissions will not be accepted for this academic year.

Required Courses (6 credits)

MGPO 362 (3) Fundamentals of Entrepreneurship
 MGPO 364 (3) Entrepreneurship in Practice

Complementary Courses (9 credits)

To be chosen from:

ACCT 361	(3)	Management Accounting
BUSA 364	(3)	Business Law 1
BUSA 465	(3)	Technological Entrepreneurship
FINE 342	(3)	Corporate Finance
FINE 447	(3)	Venture Capital and Entrepreneurial Finance
INSY 331	(3)	Managing Information Technology
INSY 432	(3)	Digital Business Models
MGPO 365	(3)	Business-Government Relations
MGPO 432	(3)	Topics in Entrepreneurship
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 445	(3)	Industry Analysis and Competitive Strategy
MGPO 460	(3)	Managing Innovation
MRKT 365	(3)	New Products
MRKT 451	(3)	Marketing Research
MRKT 455	(3)	Sales Management
ORGB 321	(3)	Leadership

9.8.5.4 Bachelor of Commerce (B.Com.) - Concentration in Finance (15 credits)

The Finance concentration has been designed to provide understanding of key concepts in finance theory, financial institutions, investment analysis, risk management, and applied techniques. Graduates find a strong demand among financial organizations, governments, and non-financial firms where they pursue careers that lead to positions such as Managing Partner, Treasurer, and V.P. Finance.

Required Courses (9 credits)

FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance

Complementary Courses (6 credits)

Selected from the following:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 442	(3)	Capital Markets and Institutions
FINE 444	(3)	Principles and Strategies of Securities Trading
FINE 445	(3)	Real Estate Finance
FINE 446	(3)	Behavioural Finance
FINE 447	(3)	Venture Capital and Entrepreneurial Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 452	(3)	Applied Quantitative Finance
FINE 456	(3)	Trading in Financial Securities
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1

FINE 492	(3)	International Corporate Finance
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

9.8.5.5 Bachelor of Commerce (B.Com.) - Concentration in Information Systems: Digital Innovation (15 credits)

There are two options offered in the Information Systems (IS) Concentration: IT for Business and Digital Innovation.

The IS Concentration - Digital Innovation option gives students knowledge and skills to navigate the digital economy. Today, business managers, leaders, and entrepreneurs need to be able to innovate digitally. This Concentration provides students with essential skills and knowledge they need to navigate the complex process of digital innovation. Students learn theories, frameworks, and methods to develop their innovative potential especially as it relates to the

Complementary Courses (12 credits)

Selected from the following:

INSY 331	(3)	Managing Information Technology
INSY 336	(3)	Data Handling and Coding for Analytics
INSY 339	(3)	IT Consulting
INSY 341	(3)	Developing Business Applications
INSY 430	(3)	IT in Financial Markets
INSY 431	(3)	IT Implementation Management
INSY 432	(3)	Digital Business Models
INSY 434	(3)	Topics in Information Systems 1
INSY 437	(3)	Managing Data and Databases
INSY 440	(3)	E-Business
INSY 442	(3)	Business Intelligence and Data Analytics
INSY 446	(3)	Data Mining for Business Analytics
INSY 450	(3)	Information Systems Project Management
INSY 455	(3)	Technology and Innovation for Sustainability

9.8.5.7 Bachelor of Commerce (B.Com.) - Concentration in International Business (15 credits)

The objective of the International Business Concentration is to help the student develop conceptual and analytical skills needed to formulate feasible and effective management policies in an international setting. With economic and business acti

MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MRKT 451	(3)	Marketing Research
MRKT 483	(3)	International Marketing Management
ORGB 380	(3)	Cross Cultural Management

9.8.5.8 Bachelor of Commerce (B.Com.) - Concentration in Labour-Management Relations and Human Resources (15 credits)

The objective of this concentration is to provide a general understanding of employer-employee relations and human resources, both at the micro-level and in relation to the socio-economic context in which they occur. Students interested in more intensive study of this area are urged to consider the Major program in Labour-Management Relations and Human Resources.

Required Courses (9 credits)

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 496	(3)	Collective Bargaining
ORGB 423	(3)	Human Resources Management

Complementary Courses (6 credits)

Selected from the following:

INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	Comparative Employment Relations
INDR 492	(3)	Globalization and Labour Policy
INDR 494	(3)	Labour Law
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
		People Analytics

INSY 455	(3)	Technology and Innovation for Sustainability
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGSC 488	(3)	Sustainability and Operations
MRKT 351	(3)	Marketing and Organizational Change

0-6 credits from the following:

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 492	(3)	Globalization and Labour Policy
MGPO 365	(3)	Business-Government Relations
MGPO 430	(3)	Practicum in Not for Profit Consulting
MGPO 435	(3)	The Origins of Capitalism
MGPO 450	(3)	Ethics in Management
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MGSC 483	(3)	Analytics-Based Community Project
MSUS 401	(3)	Sustainability Consulting
MSUS 434	(3)	Topics in Sustainability
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 421	(3)	Managing Organizational Change

Or any related undergraduate topics course (with approvals from the Program Mentor and the BCom Office.)

9.8.5.10 Bachelor of Commerce (B.Com.) - Concentration in Marketing (15 credits)

The Marketing concentration prepares the student for a wide variety of career opportunities. Marketing graduates historically have found employment in the fields of product management, advertising, sales management, marketing management, pricing, marketing research, distribution, and retailing. The Marketing concentration provides a balance between courses focusing on fundamental, theoretical, and "need to know" material, and courses with a strong practical and applied orientation.

Required Courses (951red0 0 1 17t e vMark

MRKT 456	(3)	Business to Business Marketing
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

9.8.5.11 Bachelor of Commerce (B.Com.) - Concentration in Operations Management (15 credits)

9.8.5.13 Bachelor of Commerce (B.Com.) - Concentration in Retail Management (15 credits)

The Retail Management concentration will combine business fundamentals together with real-time, e

The remaining credits to be chosen from:

BUSA 391	(3)	International Business Law
ECON 305	(3)	Industrial Organization
MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 434	(3)	Topics in Policy I
MGPO 435	(3)	ORGB 380 Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 468	(3)	Managing Organizational Politics
MGPO 475	(3)	Strategies for Developing Countries
MGSC 402	(3)	Operations Strategy
ORGB 380	(3)	Cross Cultural Management

9.8.5.15 Bachelor of Commerce (B.Com.) - Concentration in Strategic Management - Social Business & Enterprise (15 credits)

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Business & Enterprise.

The concentration in Strategic Management - Social Business & Enterprise Option is intended for students interested in harnessing the not-for-profit, civil, and for-profit sectors to tackle social issues. Students will be challenged to reconceptualise strategy formation and implementation with an emphasis on economic development, the environment, corporate social responsibility, and social impact. The concentration will impart a comprehensive set of management skills, encompassing cross-sectoral collaboration and social entrepreneurship. It encourages students to complement their courses in Management with an array of course offerings from outside the Faculty. The concentration complements concentrations and majors in other Management areas, adding a holistic and integrated perspective. Anticipated career trajectories include positions in NGOs; international organizations such as those affiliated with the UN; social enterprise; government agencies; as well as in the fields of consulting and corporate social responsibility.

MATH 340	(3)	Discrete Mathematics
MATH 407	(3)	Dynamic Programming
MATH 417	(3)	Linear Optimization

9.8.6.2 Bachelor of Commerce (B.Com.) - Minor Statistics for Management Students (21 credits)

Students should consult the appropriate adviser in the Department of Mathematics and Statistics. See:

<https://www.mcgill.ca/mathstat/undergraduate/advising>

Program Prerequisites

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

or their equivalents

Required Courses (15 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
MATH 423	(3)	Applied Regression

* Credits for MATH 324 are counted in the Management core, where they replace MGCR 271. MATH 324 is a required course in the program and may be double-counted for this Minor.

Complementary Courses (6 credits)

6 credits selected from:

MATH 204**	(3)	Principles of Statistics 2
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 558	(0)	Design of Experiments
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

** Students should consult the rules for credit for Statistics courses in the course overlap section of the eCalendar. In particular, MATH 204 cannot be taken for credit after credit for MATH 324 has been obtained.

9.8.7 Minors for Non-Management Students

The Desautels Faculty of Management has four minors that allow undergraduate non-Management students to develop a variety of managerial skills that will serve them throughout their chosen careers.

All minors are 18 credits split between a fixed set of required courses and a choice amongst complementary courses. Students can only pursue one of the minors offered by the Desautels Faculty of Management. On an exceptional basis, students may be permitted a maximum of one Continuing Studies course for credit within their chosen Management minor.

All minors for non-Management students have limited enrolment and require an application; the **application form** may be found at [mcgill.ca/desautels/programs/bcom/academics/minors-non-management-students/management-minors-non-management-students](https://www.mcgill.ca/desautels/programs/bcom/academics/minors-non-management-students/management-minors-non-management-students). **The application deadline is June 1.** Decisions will be made by July 1, whereby students will be informed via their McGill email address. Courses for minors must be passed with grades of C or better. Courses for minors cannot be taken under the Satisfactory/Unsatisfactory option. Students must inform their Faculty when they are approved for one of the four minors, to ensure timely graduation.

9.8.7.1 Minor in Entrepreneurship

Detailed information on this Minor can be found under

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Introduction to Finance

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Principles of Marketing
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

9.8.7.5 Bachelor of Commerce (B.Com.) - Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Principles of Marketing
MRKT 354	(3)	Marketing Strategy
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits:

MGCR 271*	(3)	Business Statistics
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6 credits selected from:

MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising and Media
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

9.8.7.6 Bachelor of Commerce (B.Com.) - Minor Operations Management (For Non-Management Students) (18 credits)

The Minor Operations Management consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and Agricultural & Environmental Sciences.

It provides non-Management students with the opportunity to pursue a career that inv

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

Minor in Technological Entrepreneurship f

for graduates is most often obtained in investment and commercial banking, manufacturing and service firms, non-profit or v

FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

The remainder, if any

Broad-based, interdisciplinary topics will allow students to study current issues of social importance ranging from: poverty and inequality, health promotion and the environment, sustainability, and natural resource management. Students will be prepared to apply business practices to the protection of the vulnerable and the planet. Students will be poised to work for multinationals, governments, or non-governmental organizations.

B.A. Minor Concentration in Anthropology (18 credits)

B.A. Minor Concentration in Economics* (18 credits)

B.A. Minor Concentration in Geography (18 credits)

B.A. Minor Concentration in International Development Studies (18 credits)

B.A. Minor Concentration in Psychology (18 credits)

B.A. Minor Concentration in Social Studies of Medicine (18 credits)

B.A. Minor Concentration in Sociology (18 credits)

B.A. Minor Concentration in Environment: Bieler School of Environment (18 credits)

B.Sc. Minor in Environment: Bieler School of Environment (18 credits)

B.Sc. Field Study Minor (18 credits)

* Students should choose Economics (ECON) courses related to the environment, development, and health. Course numbers above ECON 209 (excluding ECON 295) are required, with at least 6 credits at the 300, 400, or 500 levels. Credits for the introductory sequence MGCR 293 and ECON 295 that are prerequisites for 300-level courses in economics do not count as part of this Minor Concentration. ECON 227 will not count if it is taken to meet other B.Com. requirements.

Language Component (9-12 credits)

9 credits of language in First- or Second-Level EAST (Asian Languages and Literature)*

or

9 credits of ISLA 521D1/D2 Introductory Arabic**

* Students may choose to complete additional credits in Japanese, Chinese or Korean for a total of 18 credits. Only 9 credits of EAST languages will count toward the Major and any optional additional credits will count as electives or toward another component if the student has sufficient credits to complete it within their degree. Students may not exceed the total credits required to graduate in order to complete these additional language credits.

** Students with no prior knowledge of Arabic may choose two levels of Arabic. Only ISLA 521 will count toward the Major and any additional optional credits in ISLA 522 or 523 will count as electives.

OR

12 credits of language courses, at the 500 level or lower, chosen from ONE of the following Subject Codes:

CLAS (Classics) [Modern Greek]

EAST (East Asian) - Third and Fourth Level

FREN (French)

FRSL (French as a Second Language)

GERM (German Studies) [German]

Internship Component

Students may complete a 3-credit internship as part of their experiential credit. The internship will consist of a minimum of 150 hours of work over a period of 8-12 weeks at an approved host institution. The institution should be located either overseas or have an international focus. Major in International Management students who are enrolled in minor concentrations in the Faculty of Arts may choose to complete internship courses in the Faculty of Arts. Please see "Faculty of Arts Internship Program" or refer to the Arts Internships website for requirements, including hours and weeks required and CGPA cut-offs.

BUSA 497 (3) Internship in International Business

OR

Research Component

BUSA 401 (3) Independent Studies in International Business

NOTE: There are CGPA requirements for exchanges and internship courses. Students without the minimum CGPA requirement must consult the Major in International Management Adviser in the BCom office to arrange for an alternative.

Bachelor of Commerce (B.Com.) - Major Labour-Management Relations and Human Resour

ECON 306	(3)	Labour Markets and Wages
INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	Comparative Employment Relations
INDR 492	(3)	Globalization and Labour Policy
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 330	(3)	People Analytics
ORGB 380	(3)	Cross Cultural Management
ORGB 401	(3)	Leadership Practicum in Social Sector
ORGB 409	(3)	Organizational Research Methods
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 434	(3)	Topics in Organizational Behaviour 1
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management
SOCI 312	(3)	Sociology of Work and Industry
SOCI 321	(3)	Gender and Work
SOCI 354	(3)	Dynamics of Industrial Societies

9.8.8.7 Bachelor of Commerce (B.Com) - Major Managing for Sustainability (66 credits)

The B.Com.; Major in Managing for Sustainability focuses on combining management and business knowledge with a solid understanding of the interlinked economic, social and ecological challenges of achieving sustainability. It integrates management studies with fundamentals of environmental science and sustainability.

The Major includes the integration of multiple management disciplines with sustainability; fundamental concepts of environmental science, social sciences and human impacts on natural systems; and an experiential learning component in the form of a consulting engagement, internship or research project offering "real world" experience.

Required Courses (42 credits)

Management Core

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 381	(3)	Compensation Management

MSUS 402 (3) Systems Thinking and Sustainability

Complementary Courses (24 credits)

3-9 credits from the following:

ACCT 401 (3) Sustainability and Environmental Accounting
INSY 455 (3) Technology and Innovation for Sustainability
MGPO 438 (3) Social Entrepreneurship and Innovation
MGSC 488 (3) Sustainability and Operations
MRKT 351 (3) Marketing and Society

3-6 credits from the following:

MGPO 430 (3) Practicum in Not for Profit Consulting
MGSC 483 (3) Analytics-Based Community Project
MSUS 400 (3) Independent Studies in Sustainability
MSUS 401 (3) Sustainability Consulting
MSUS 497 (3) Internship in Sustainability

0-9 credits from the following:

INDR 294 (3) Introduction to International Management
INDR 492 (3) Globalization and Labour Policy
MGPO 365 (3) Business-Government Relations
MGPO 435 (3) The Origins of Capitalism
MGPO 450 (3) Ethics in Management
MGPO 469 (3) Managing Globalization
MGPO 475 (3) Strategies for Developing Countries
MSUS 434 (3) Topics in Sustainability
ORGB 321 (3) Leadership
Negotiations in Sustainability

Suggested Course List

The Suggested Course List is divided into two thematic categories: Social Sciences and Policy; and Natural Sciences and Technology.

Most courses listed at the 300 level and higher have prerequisites. You are urged to prepare your program of study with this in mind.

Some courses may be subject to other regulations.

This list is not exhaustive. Y

PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201SOCI 386	(3)	Planning the 21st Century City

CHEM 281	(3)	Inorganic Chemistry 1
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
		The Biophysical EnBioph

9.8.8.8 Bachelor of Commerce (B.Com.) - Major Marketing (66 credits)

This 30-credit Major is designed to provide students with a strong background in marketing to prepare them for the wide variety of marketing careers available. The Major is most appropriate for those students seeking a career in brand management, small business marketing, selling and sales management, and business-to-business marketing.

All B.Com. students take a Core curriculum in addition to this Major, which is comprised of 30 credits of Marketing courses.

Required Courses (45 credits)

Management Core (36 credits)

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (9 credits)

MRKT 354	(3)	Marketing Strategy
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour

Complementary Courses (21 credits)

21 credits selected from:

MRKT 351	(3)	Marketing and Society
MRKT 355	(3)	Services Marketing
MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 434	(3)	Topics in Marketing 1
MRKT 438	(3)	Brand Management
MRKT 440	(3)	Marketing Analytics
MRKT 453	(3)	Advertising and Media
MRKT 455	(3)	Sales Management
MRKT 456	(3)	Business to Business Marketing
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

<https://www.mcgill.ca/mathstat/under>

3 credits selected from:

- | | | |
|-------------|-----|---|
| MGSC 372*** | (3) | Advanced Business Statistics |
| MGSC 479 | (3) | Applied Optimization |
| MGSC 575 | (3) | Applied Time Series Analysis Managerial Forecasting |
- Simulation of Management Sys7 Tm tm1 0 0 1 165.864 695.92 Tm(Simu)

ORGB 401	(3)	Leadership Practicum in Social Sector
ORGB 409	(3)	Organizational Research Methods
ORGB 421	(3)	Managing Organizational Change
ORGB 434	(3)	Topics in Organizational Behaviour 1
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management

12 credits from one of the following Specialty Areas*.

*Students select one of the three specialty areas and take 12 credits from that area. At least tw

ANTH 303	(3)	Ethnographies of Post-socialism
ANTH 318	(3)	Globalization and Religion
ANTH 320	(3)	Social Evolution
ANTH 342	(3)	Gender, Inequality and the State
ANTH 352	(3)	History of Anthropological Theory
ANTH 355	(3)	Theories of Culture and Society
ANTH 358	(3)	The Process of Anthropological Research
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 440	(3)	Cognitive Anthropology

9.8.8.11 Bachelor of Commerce (B.Com.) - Major Concentration Statistics for Management Students (72 credits)

Students should consult the appropriate adviser in the Department of Mathematics and Statistics. See:

<https://www.mcgill.ca/mathstat/under>

6 credits selected from:

- | | | |
|----------|-----|---|
| MGSC 479 | (3) | Applied Optimization |
| MGSC 575 | (3) | Applied Time Series Analysis Managerial Forecasting |
| MGSC 578 | (3) | Simulation of Management Systems |

6 credits selected from:

- | | | |
|------------|-----|----------------------------|
| MATH 204** | (3) | Principles of Statistics 2 |
|------------|-----|----------------------------|

MGPO 445	(3)	Industry Analysis and Competitive Strategy
MGPO 460	(3)	Managing Innovation
MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization

at least 9 credits from the following group:

MGPO 365	(3)	Business-Government Relations
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 475	(3)	Strategies for Developing Countries
MGPO 567	(3)	Business in Society

the remaining credits, if any, to be chosen from:

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 212	(3)	Anthropology of Development
BUSA 391	(3)	International Business Law
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 402	(3)	Dynamic Cities
MGPO 430	(3)	Practicum in Not for Profit Consulting
MGPO 433	(3)	Topics in Social Business and Enterprise
MGPO 434	(3)	Topics in Policy 1
MGPO 435	(3)	The Origins of Capitalism
MGPO 468	(3)	Managing Organizational Politics
MGSC 402	(3)	Operations Strategy
ORGB 380	(3)	Cross Cultural Management

9.8.9 Honours

Honours programs:

- [section 9.8.9.1: Bachelor of Commerce \(B.Com.\) - Honours Economics \(69 credits\)](#)
- [section 9.8.9.2: Bachelor of Commerce \(B.Com.\) - Honours Investment Management \(81 credits\)](#)

Joint Honours programs:

- [section 9.8.9.3: Bachelor of Commerce \(B.Com.\) - Joint Honours Economics and Accounting \(81 credits\)](#)
- [section 9.8.9.4: Bachelor of Commerce \(B.Com.\) - Joint Honours Economics and Finance \(81 credits\)](#)

Honours programs are available in Economics and in Investment Management. Joint Honours programs are available in Economics and Accounting and in Economics and Finance. For more information on these programs, please refer to mcgill.ca/desautels/programs/bcom/academics/course-information/honours.

The difference between the Honours and Major programs is not one of quantity but rather of quality; Honours programs involve study in greater depth. Students normally register for the Honours programs in U1 but special arrangements may be made for students wishing to enter the program at the beginning of U2.

Graduation with an Honours standing normally requires a minimum CGPA of 3.00 and an average of 3.00 in the specified courses of the Honours programs, although academic units may set higher requirements for their program GPA. The minimum grade acceptable in an Honours course is B-, although academic units may set a higher requirement for grades in their program.

Honours students who satisfy the 6-credit Statistics requirement by taking MGCR 271 and MGSC 372 (or ECON 227D1/D2) must complete ECON 468 and ECON 469 to fulfil the program requirements in Economics for the following programs: Honours in Economics for Management Students, Joint Honours in Economics and Accounting, and Joint Honours in Economics and Finance.



Mentors: Please consult the Bachelor of Commerce website at: mcgill.ca/desautels/programs/bcom/academics/course-information.

9.8.9.1 Bachelor of Commerce (B.Com.) - Honours Economics (69 credits)

The B.Com. Honours program in Economics is offered by the Desautels Faculty of Management. It provides a very good undergraduate education for those interested in pursuing further studies in economics and several other fields, including the MBA, or in entering straightaway a wide variety of careers.

This program is comprised of 42 approved credits of Honours Economics courses (9 credits of which are counted as core credits in Management).

Continuation in this Honours program from one year to the next requires a minimum grade of B- in ECON 250 and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours.

To be awarded an Honours degree, a student must obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and an overall CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and an overall CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

All Honours students should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics.

Program Prerequisites (0-10 credits)

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Required course to be completed prior to U2 (or equivalent)

** Prerequisites for entering this program (or equivalent)

Management Core (27 credits)

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Required Courses (27 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses>. Students who have taken equivalent statistics courses may be waived the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take

ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Cour

ACCT 452	(3)	Financial Reporting Valuation
FINE 342	(3)	Corporate Finance
FINE 440	(3)	Honours Investment Management Research Project 1
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 450	(3)	Honours Investment Management Research Project 2
FINE 451	(3)	Fixed Income Analysis
FINE 452	(3)	Applied Quantitative Finance
FINE 455	(3)	Alternative Investments
FINE 482	(3)	International Finance 1
MGSC 372	(3)	Advanced Business Statistics

Complementary Courses (3 credits)

3 credits to be taken from the list below:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 447	(3)	Venture Capital and Entrepreneurial Finance

9.8.9.3 Bachelor of Commerce (B.Com.) - Joint Honours Economics and Accounting (81 credits)

The B.Com. Joint Honours in Economics and Accounting program is offered jointly between Economics and the Desautels Faculty of Management. This program requires the completion of 30 specified credits of Honours courses listed in the Economics Honours part of this program and 24 specified credits for Accounting. In addition, all B.Com. students take a Core curriculum.

Students in this program should see an Economics adviser and a Management adviser. For the economics part, the students should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics, Faculty of Arts.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250 and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours.

The Faculty of Management requires that students must achieve a grade of B- or better in all courses of the Accounting component of this program.

For the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and an overall CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and an overall CGPA of 3.50. In cases where a student takes a Supplemental Exam in a course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

Program Prerequisites (0-10 credits)

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Required course to be completed prior to U2 (or equivalent)

** Prerequisite for entering this program (or equivalent)

Required Courses (66 credits)

Management Core (27 credits)

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Honours Courses (39 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses>. Students who have taken equivalent statistics courses prior to entering the program may be waived the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take ECON 469 in addition to ECON 468.

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 455	(3)	Development of Accounting Thought
ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Courses (15 credits)

3 credits from the following:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

12 credits from the following:

ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
1 70.52 101.862 Tm(5MT 4523)		Management Control

(3)

9.8.9.4 Bachelor of Commerce (B.Com.) - Joint Honours Economics and Finance (81 credits)

The B.Com. Joint Honours in Economics and Finance program is offered jointly between Economics and the Desautels Faculty of Management. This program requires the completion of 30 specified credits of Honours courses listed in the Economics part of the program and 24 specified credits for Finance. In addition, all B.Com. students take a Core curriculum.

Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult the Economics Honours

ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours
FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 547	(3)	Advanced Finance Seminar

Complementary Courses (15 credits)

3 credits from the following:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

12 credits from the following:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 444	(3)	Principles and Strategies of Securities Trading
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 456	(3)	Trading in Financial Securities
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Corporate Finance
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments

9.9 Desautels Faculty of Management Academic Staff

Dean

Morty Yalovsky - *(Interim Dean)*

Executive Committee

Robert David– *Vice-Dean, Faculty*

Liette Lapointe - *Vice-Dean, Programs*

Emmanuelle Vaast– *Associate Dean, Research*

Lisa Cohen - *Director of Equity, Diversity & Inclusion (EDI)*

Saibal Ray – *Academic Director, Bensadoun School of Retail Management*

Benjamin Croitoru– *Associate Dean, Undergraduate Programs*

Executive Committee

Samer Faraj - *Director, PhD Program*

Mark Michaud – *Director of Administration*

Greg Houlahan – *Managing Director of Advancement*

Rita McAdam –

Associate Professors

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. Jørgensen; B.A., M.A.(UNC-Chapel Hill), Ph.D.(McG.) – *Strate*

Assistant Professors

J. Serpa; B.Sc.(Trent), M.A., Ph.D.(Br. Col.) – *Operations Management*

B. Wenzel; B.Acy., M.Acy.(Missouri), Ph.D.(Ariz.) – *Accounting*

N. Yang; B.Sc.(Alta.), M.A., Ph.D.(Tor.) – *Marketing*

J. Zhang; B.S.(ZUEL), M.A.(Boston), M.Sc.(Ill.-Chic.), Ph.D.(N'western) – *Accounting*

CAS Full-time Faculty Lecturers, Assistant Professors (Research) (Professional), & Associate Members

A. Abrams; B.Com.(McG.), G.D.P.A.(C'dia) – *Accounting*

L. Breitner; B.A.(Wisc. Madison), M.B.A.(Simmons), D.B.A.(Boston) – *Accounting and Health Mana*

- The *Marvin Duchow Music Library* supports research, teaching, and learning at the Schulich School of Music through reference and information literacy services, by the acquisition and preservation of physical and online collections (more than 300,000 scores, recordings, books, and periodicals, as well as a vast number of online resources), and with a variety of study and multifunctional spaces over three floors, which cater to the needs of McGill Library users at large. The Open Lab of the Music Library is a unique service in Canada, supporting the technology, sound recording, and audiovisual editing needs of the School's faculty and students.
- The *Gertrude Whitley Performance Library* has performing materials for over 6,000 titles;
- The *Centre for Interdisciplinary Research in Music Media and Technology* (CIRMMT) is an interfaculty, inter-university, international consortium of scholars that brings together researchers and artists working in the science and technology of music in a cutting-edge environment for integrated studies of music, acoustics, cognitive science, engineering, sound recording, performance science, and digital media.

The buildings house labs for numerous specialized functions: digital composition and electronic music, music education research, multi-channel sound recording, music perception and cognition, sound processing and control, computational modelling, and more. There are state-of-the-art classrooms, teaching studios, and over 100 plinr0 1 x. -unie96 Tuare st 326.899 678.44 Tm(,96 Tuare ste 1 420.866 619.06 T569T96 Tuare stT458.924 664.96 Tm51,96 Tuare steTw1 0e-ar

10.3.1.3 Music Theory Area

Music Theory

Biamonte, Nicole; B.F.A.(SUNY Purchase), Ph.D., M.Phil.(Yale); Associate Professor
Caplin, William; B.M.(USC), M.A., Ph.D.(Chic.); Professor (*James McGill Professor*)
Hasegawa, Robert; B.A.(Bard Col.), M.A.(Calif.), Ph.D.(Harv.); Associate Professor (*William Dawson Scholar*)
Klorman, Edward; B.Mus.(Juilliard), M.A., Ph.D.(CUNY); Assistant Professor
Neidhöfer, Christoph; Dipl.(Musikhochschule Basel), Ph.D.(Harv.); Associate Professor
Schubert, Peter; B.A., M.A., Ph.D.(Col.); Professor
Wild, Jonathan; B.Mus., M.A.(McG.), Ph.D.(Harv.); Associate Professor, Theory Area Coordinator

10.3.1.4 Music Technology Area

Music Technology

Depalle, Philippe; B.Sc.(Paris XI & ENS Cachan), D.E.A.(Le Mans & ENS Cachan), Ph.D.(Le Mans & IRCAM); Associate Professor; Faculty Program Adviser
Fujinaga, Ichiro; B.Sc., B.Mus.(Alta.), M.A., Ph.D.(McG.); Associate Professor
McAdams, Stephen; B.Sc.(McG.), Ph.D.(Stan.), D.Sc.(Paris); Professor (*Canada Research Chair*)
Mulder, Axel; Drs.(Rijks Universiteit Groningen), Ph.D.(S. Fraser); Adjunct Professor
Scavone, Gary; B.A., B.Sc.(Syrac.), M.S., Ph.D.(Stan.); Professor; Music Technology Area Coordinator
Verge, Marc-Pierre; B.A., M.Sc.(Laval), Ph.D.(Eindhoven); Adjunct Professor
Wanderley, Marcelo; B.Eng.(UFPR, Brazil), M.Eng.(UFSC, Brazil), Ph.D.(Paris VI & IRCAM); Professor (*INRIA International Chair*)

10.3.1.5 Musicianship Area

Musicianship

Asly, Monica; B.Mus.(McG.); Faculty Lecturer
Mariner, Justin; M.Mus., D.Mus.(McG.); Assistant Professor
Schubert, Peter; B.A., M.A., Ph.D.(Col.); Professor; Musicianship Area Coordinator

10.3.1.6 Musicology Area

Musicology

Barg, Lisa; B.A.(Antioch), M.A., Ph.D.(SUNY, Stony Brook); Associate Professor, Musicology Area Coordinator
Brackett, David; B.A.(Calif.-Santa Cruz), M.M.(New England Cons.), D.M.A.(Cornell); Professor
Cumming, Julie; B.A.(Col.), M.A., Ph.D.(Calif., Berk.); Professor
Huebner, Steven; B.A., B.Mus., L.Mus.(McG.), M.F.A., Ph.D.(Princ.); Professor (*James McGill Professor*)
Kok, Roe-Min; B.Mus.(Texas-Austin), M.A.(Duke), Ph.D.(Harv.); Associate Professor
Whitesell, Lloyd; B.A.(Minn.), M.A., Ph.D.(SUNY, Stony Brook); Professor

Sound Recor

Early Music

Bandy

Jazz Flute

Gossage, Dave; Instructor

Jazz Guitar

Amirault, Greg; B.Mus.(McG.); Instructor

Bibace, Kenneth; B.Mus., M.Mus.(McG.); Instructor

Clayton, Greg; Instructor

Gauthier, Michael; Instructor

Jimenez, Carlos; B.Mus., M.Mus.(McG.); Instructor

Jazz Piano

Pilc, Jean-Michel; Associate Professor

Suh, Min Jung; B.Mus., M.Mus.(McG.); Instructor

Trudel, Marianne; B.Mus.(McG.), M.Mus.(Montr.); Instructor

White, André; B.A.(C'dia), M.Mus.(McG.); Associate Professor

Johnston, Jeff; Instructor

Jazz Saxophone

Bolduc, Rémi; Associate Professor

Jensen, Christine; B.Mus., M.Mus.(McG.); Instructor

Kennedy, Donny; B.Mus., M.Mus.(McG.); Instructor

Lozano, Frank; Instructor

McLean, Allan; Instructor

Jazz Trombone

Grott, David; Instructor

Trottier, Jean-Nicolas; B.Mus., M.Mus., D.Mus.(McG.); Instructor

Jazz Trumpet

Couture, Jocelyn; B.Mus.(UQAM), M.Mus.(McG.); Instructor

Dean, Kevin; B.M.E.(Iowa), M.Mus.(Miami); Professor

Di Lauro, Ron; B.Mus., M.Mus.(McG.); Instructor

Mahar, Bill; B.Mus.(McG.); Instructor

Sullivan, Joe; B.A.(Ott.), M.M.(New England Cons.); Associate Professor, Jazz Area Coordinator

Jazz Violin

Tremblay, Lisanne; B.Mus.(McG.); Instructor

Jazz Vibraphone

TBA

Jazz Voice

Dahlen, Sienna; B.Mus.(McG.); Instructor

Lee, Rane; Instructor

Novak, Bohdanna; B.Mus.(McG.); Instructor

10.3.2.5 Organ Area

Organ

Foster, Adrian; B.Mus.(Georgia), M.Mus.(Eastman Sch. of Music), D.Mus.(McG.); Instructor

10.3.2.6 Percussion Area

Percussion

Cello

Dyachkov, Yegor; Instructor

Haimovitz, Matt; B.A.(Harv.); Associate Professor

Manker, Brian; B.Mus., M.Mus.(New England Cons.); Principal Cello, Montreal Symphony Orchestra; Assistant Professor

Double Bass

Chappell, Eric; B.Mus.(McG.); Montreal Symphony Orchestra; Instructor

Feltham, Scott; B.Mus.(McG.); Montreal Symphony Orchestra; Instructor

Robinson, Brian; B.Mus.(Tor.); Montreal Symphony Orchestra; Assistant Professor

Yazdanfar, Ali; B.A.(Johns Hop.); Principal Bass, Montreal Symphony Orchestra; Assistant Professor

Guitar

Cowan, Steven; B.Mus.(Nfld.), M.Mus.(Manhattan School of Music), D.Mus.(McG.); Instructor

Ducharme, Jérôme; Prix Grande Distinction(CMQM); Instructor

Kearney, Patrick; B.A.(ENMP), M.Mus.(Montr.); Instructor

Harp

Swartz, Jennifer; Dip.(Curtis); Principal Harp, Montreal Symphony Orchestra; Assistant Professor

10.3.2.9 Voice Area

Voice

Algieri, Stefano; B.Mus., M.Mus.(Manhattan School of Music); Associate Professor

Kolomyjec, Joanne; B.Mus.(Tor.); Assistant Professor

Kutan, Aline; Instructor

Labelle, Dominique; L.Mus.(McG.), Artist Dip.(Boston); Assistant Professor; Voice Area Coordinator

Mac Master, John; L.Mus.(McG.); Assistant Professor

Polegato, Brett; Instructor

Popescu, Annamaria; Artist Dip.(Acad. of Vocal Arts); Assistant Professor

Smith-Bessette, Tracy; B.Mus.(Calg.), Artist Dip.(Tor.), M.Mus., D.Mus.(McG.); Instructor

Watson, Nathaniel; Instructor

Treviño, Matthew; B.Mus., M.Mus.(Baylor); Assistant Professor

Vocal Repetiteurs and Coaches

Godin, Olivier; Instructor

Gonthier, Esther; Instructor

Hargreaves, Stephen; B.Mus.(Ind.); Assistant Professor

LeBlanc, Suzie; Instructor

McMahon, Michael; B.Mus.(McG.), Graduate (Hochschule fur Musik, Vienna); Associate Professor

Nigrim, Dana; Instructor

Pelletier, Louise; B.Ed., M.Mus.(UQAM), M.Mus.(Montr.); Instructor

10.3.2.10 Woodwind Area

Flute

Brouwer, Albert; Instructor

Christie, Carolyn; B.Mus.(McG.), M.H.K.(Ott.); Associate Professor

Flute

Howes, Heather; B.Mus., M.Mus.(McG.); Instructor

Shuter, Cindy; B.Mus.(Tor.); Instructor

Bluteau, Denis; Premier Prix(CMQS); M.Mus.(Montr.); Instructor

Oboe

Baskin, Theodore; B.Mus.(Curtis), M.Mus.(Auck.); Principal Oboe, Montreal Symphony Orchestra; Associate Professor

Leclair, Jacqueline; B.Mus.(Eastman Sch. of Music), M.Mus., D.M.A.(SUNY, Stony Brook); Associate Professor

Clarinet

Aldrich, Simon; B.Mus., L.Mus.(McG.); Assistant Professor, Woodwind Area Coordinator

Cope, Todd; B.Mus.(Cinc.); Instructor

Desgagné, Alain; Premier Prix(CMQQ), M.Mus.(N'western); Assistant Professor

Dumouchel, Michael; B.Mus.(Eastman Sch. of Music); Montreal Symphony Orchestra; Instructor

Normand, Jean-François; Instructor

Bassoon

Lévesque, Stéphane; Premier Prix(CMQM); M.Mus.(Yale); Principal Bassoon, Montreal Symphony Orchestra; Assistant Professor

Mangrum, Martin; Montreal Symphony Orchestra; Instructor

Saxophone

Leclair, Marie-Chantal; B.Mus., M.Mus.(Montr.); Instructor

10.4 About the Schulich School of Music (Undergraduate)

McGill's Schulich School of Music is the largest university-based school for professional musical training and music research in Canada.

McGill's Schulich School of Music is renowned for its orchestral, choral, opera, jazz, chamber, contemporary, and early music programs, and for its award-winning creative and research work in composition, music theory, musicology, music education, sound recording, and music technology.

- *Pollack Hall* (capacity: 600), *Redpath Hall* (capacity: 300 and housing the University organ), and *Tanna Schulich Hall* (capacity: 170) are among the busiest and best concert venues in Montreal;
- The intimate *Clara Lichtenstein Hall* (capacity: 50) was renovated in 2014;
- Facilities also include the *Wirth Opera Studio* (an opera rehearsal room), and the *Multimedia Complex Suite*, including the Multimedia Room (a scoring stage/acoustical research lab), three isolation booths, a small recording studio, and three control rooms of different sizes;
- The *Marvin Duchow Music Library* supports research, teaching, and learning at the Schulich School of Music through reference and information literacy services, by the acquisition and preservation of physical and online collections (more than 300,000 scores, recordings, books, and periodicals, as well as a vast number of online resources), and with a variety of study and multifunctional spaces over three floors, which cater to the needs of McGill Library users at large. The Open Lab of the Music Library is a unique service in Canada, supporting the technology

555 Sherbrooke Street West
Montreal QC H3A 1E3
Canada
Telephone: 514-398-4535
Fax: 514-398-1540
Website: mcgill.ca/music

10.4.2 School Administrative Officers

10.4.2.1 Dean's Office

Dean's Office

Brenda Ravenscroft; M.Mus.(King's, Lond.), Ph.D.(Br. Col.)

Dean

Tracy Roach; B.Mus.(McG.)

Faculty Administrator

Safia Nour; B.Com.(McG.)

Human Resources Administrator

Genevieve St-Arnault; Cert.(C'dia)

Assistant to the Dean

Hugh Topham; M.Mus.(McG.)

Associate Director Development, University Advancement

Daniel Zuluaga; M.Mus(Ind.), Ph.D.(USC)

University Advancement Officer

Elin Soderstrom; B.Mus.(McG.), M.Mus.(Montr.)

University Advancement Officer

Irene Baczynsk

Administrative Coordinator

Academic Affairs

Christa Emerson; B.A.(Mich.), M.Mus.(Cinc.), M.Mus.(Wisc.), D.Mus.(McG.)	Ensemble Resource Supervisor
David Menzies; D.Mus.(McGill)	Booking Office Administrator
Kerry Wagner; C.T.T.	Piano Maintenance Supervisor
Christopher Smythe; B.Mus., M.Mus.(McG.)	Shop Coordinator

10.4.2.5 Admissions

Admissions

Patrick O'Neill; B.A.(McG.)	Admissions and Recruitment Officer
	Graduate Ser

10.4.2.9 Marvin Duchow Music Library

Telephone: 514-398-4695

Marvin Duchow Music Library

Houman Behzadi; B.Mus, M.Mus(UWO), M.L.I.S.(McG.)

Head Music Librarian

Music Technology Research Laboratories

Darryl Cameron

Chief Electronics Technician

Centre for Interdisciplinary Research in Music Media & Technology

Jérémie Voix; Ph.D.(ÉTS)

Associate Director, Scientific and Technological Research

10.4.2.21 McGill Conservatory, Community Program of the Schulich School of Music of McGill University

Telephone: 514-398-4543 (Downtown campus)

Telephone: 514-398-4543 (Macdonald campus)

Website: mcgill.ca/conservatory

McGill Conservatory, Community Program of the Schulich School of Music of McGill University

Sara Laimon; B.Mus.(Br. Col.), M.Mus.(Yale), D.M.A.(SUNY, Stony Brook) **Director**

Henry Tin; B.Eng., M.Eng., M.Sc.(McG.) **Associate Director**

Nancy Soulsby; B.A., Dip.Ed.(McG.) **Administrative Assistant**

Frank Mutya; B.Sc.(Manit.), B.Mus.(Tor.), M.Mus.(McG.) **Examination Coordinator**

TBA **Registration Coordinator**

10.5 Overview of Programs

The Schulich School of Music offers degree programs leading to a Bachelor of Music (B.Mus.), and diploma programs leading to a Licentiate in Music (L.Mus.).

- The **Department of Music Research** offers Minors in Music Composition, Music Education, Music Entrepreneurship, Music History, Music Theory, Musical Applications of T

All of the above B.Mus. programs normally require at least three years of study follo

10.5.1.7 M.Mus. Sound Recording (Prerequisite courses)

year preceding the award and must register for full-time studies during the subsequent year. Students whose records contain outstanding incompletes or deferrals will not be considered. No application is required.

Students enrolled in a B.Mus. or L.Mus. program may be eligible to apply for other types of financial aid to support their learning activities as a music

Music Admissions Office

10.6.3.2 CEGEP Applicants

Students are expected to obtain the Quebec Diploma of Collegial Studies (*Diplôme d'études collégiales* [DEC]) in the Music Concentration or equivalent. Applicants with a DCS/DEC in a field other than Music must have the equivalent Music prerequisites. The minimum overall average required is 75%. CEGEP graduates are considered for admission to a three-year or a four-year program.

10.6.3.3 Canadian High School (excluding Quebec) Applicants

For B.Mus., L.Mus. students (except those in a jazz program) and students in other bachelor programs who would like to pursue a music minor or major:

The following placement exams are available:

- Theory - MUTH 100*, 150 and 151
- Musicianship (Ear Training) - MUSP 140, 141, 240 and 241
- Musicianship (Keyboard Proficiency: piano, organ and harpsichord students are automatically exempt, and therefore not required to take this placement test) - MUSP 170 and 171

*: With the exception of students who have completed a Music DEC, or fundamental theory course(s) from another university, those who wish to take MUTH 150 must take the placement test for MUTH 100 before they can register.

Note: Students who have successfully completed equivalent musicology courses from a Cegep, college or university, or have passed the Royal Conservatory of Music (RCM) Level 10 History exam, are exempt from Western Musical Traditions (MUHL 186). There is no placement test for MUHL 186. See [Placement Exams](#) for more detail about MUHL 186 exemption.

For B.Mus. Jazz Performance, B.Mus. Faculty – Jazz, and L.Mus. Jazz Performance students:

The following placement exams are available:

- Jazz Ear Training - MUSP 123 and 124
- Jazz Keyboard Proficiency (jazz piano and jazz guitar students are automatically exempt, and therefore not required to take this placement test) - MUJZ 170 and 171
- Jazz Materials - MUJZ 160 and 161
- Theory (B.Mus. F

- [section 10.7.13: Graduation Requirements](#)
- [section 10.7.13.1: Graduation Honours](#)

10.7.1 General Academic Information

Students are required to be punctual at all classes and lessons. Grades in academic subjects are calculated on the basis of class work, examinations, and other course-related tasks as described in the class syllabus. Students risk failure in the subject concerned if they miss examinations or class work without a valid excuse provided in a timely manner.

We strongly recommend that students follow the sample course sequence published on their respective program's website (mcgill.ca/music/programs) so they can complete program requirements within the standard 4-year time frame (B.Mus. students) or 3-year time frame (L.Mus. students). It is particularly important for students to pass the required Core Courses in a timely manner and in strict sequence, as they provide structured training in the professional competencies crucial to your success in our programs and in the field of music. Students who do not pass their core courses or meet other program requirements according to the standard time frames risk not being permitted to register for lessons and/or ensembles until core courses and program requirements are completed. Students also risk delaying their graduation if they fail to complete the required courses in the recommended program sequence.

10.7.2 Academic Requirements by Program

B.Mus. Composition

All B.Mus. Composition students must attain a minimum grade of "B-" in all courses with MUCO prefixes in order to continue in the program.

The Composition Area may recommend students to transfer to another B.Mus. program if they fail to meet this requirement. Students may consult with a Program Adviser to determine their eligibility to transfer to another B.Mus. program.

B.Mus. Performance

- Students with a CGPA of 2.00 or greater are in Satisfactory Standing.

Probationary/Interim Probationary Standing

Students in Probationary Standing may continue in their program, but must carry a reduced load (maximum 12 credits per term) and raise their TGPA and CGPA to return to Satisfactory Standing. They should see their Program Advisor to review their course options.

Students in Interim Probationary Standing may continue in their program, but should evaluate their course load and reduce it as appropriate. They are strongly advised to meet with a Program Advisor to review their program status before the add/drop deadline in each semester.

- Students who were previously in Satisfactory Standing will be placed in Probationary Standing if their CGPA falls between 1.50 and 1.99.
- Students who were previously in Probationary Standing will remain in Probationary Standing if their CGPA falls between 1.50 and 1.99 and their TGPA is 2.50 or higher, although the TGPA requirement will not apply to the Summer term.
- Students who were previously in Interim Unsatisfactory Standing will be placed in Probationary Standing if their CGPA falls between 1.50 and 1.99 and their TGPA is 2.50 or higher.
- Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Academic and Student Affairs) will be placed in Probationary Standing if their CGPA is less than 2.00, but if they satisfy relevant conditions specified in their letter of readmission.

Readmitted Unsatisfactory Standing

Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Academic and Student Affairs) will have their Standing changed to readmitted Unsatisfactory Standing. Their course load is specified in their letter of readmission, as are the conditions they must meet to be allowed to continue in their program. They should see a Program Advisor to discuss their course selection.

Unsatisfactory/Interim Unsatisfactory Standing

Students in Interim Unsatisfactory Standing may continue in their program, but should evaluate their course load and reduce it as appropriate. They are strongly advised to meet with a Program Advisor to review their program status before the add/drop deadline in each semester.

Students in Unsatisfactory Standing who have failed to meet the minimum standards set by the Faculty may not continue in their program and their registration will be cancelled.

Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Associate Dean (Academic and Student Affairs) no later than July 15 for readmission to the Fall term and November 15 for the Winter term. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). Students in Unsatisfactory Standing for the second time must withdraw permanently.

Normally, supplemental examinations are not permitted; however, conditions for Probationary Standing may be considered.

For each program's large and small ensemble requirements, students should refer to the appropriate section of the eCalendar's [Music Undergraduate](#) section (all undergraduate and licentiate requirements are found under [section 10.8.2: Department of Performance](#) and [section 10.8.1: Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program](#). Graduate programs are found in the [Music Graduate and Postdoctoral Studies](#) section).

Small Ensembles:

Information on small ensembles for orchestral instruments can be found on the [Chamber Music website](#). Jazz majors should refer to the [Jazz Combos](#) section. Additional information on other types of small ensembles can be found on the [Other Ensembles section](#) of the School of Music's Ensembles website.

Students should refer to the [ensembles website](#) and the program description for clarification on ensemble requirements by program.




Note: In all cases where the term “director” of an ensemble is used, it is understood to mean the conductor, director, stage director, or coach of the ensemble.

The following policy and regulations apply to all students performing in all ensembles, lar

Small Ensembles

MUEN 581	Introduction to Ensemble Playing for Pianists
MUEN 582	Piano Ensembles
	Studio Accompan

Reason for Absence	Actions Required
<ul style="list-style-type: none"><li>• Sickness, or emergency medical or dental work <p> Important Note: Any student who is experiencing pain while playing or singing should inform their practical teacher and the Director of their ensemble(s), and should seek appropriate medical attention.</p>	<ol style="list-style-type: none"><li>1. Submit online form in advance (if possible) or within three (3) days of returning to school.<li>2. Submit doctor's certificate, statement from the Student Wellness Hub, or equivalent via email to the office of the <i>Ensemble Resource Supervisor</i>.

1. The student must be a participant in a major national or international competition, or (in the case of voice students) be given a significant role with a recognized performing arts ensemble, and (in the case of all students) have completed the minimum number of required terms of the ensemble, and have the permission of:
 - his or her practical teacher;
 - the Area Coordinator;
 - the director of the ensemble; **or**
2. The student must have completed all program requirements except the final exam on his or her instrument; **or**
3. The student must have completed all musical requirements of his or her program, having only non-music and/or free electives remaining; **or**
4. The student must have a significant medical reason.



Note: Permission to not participate in a required or complementary ensemble for a term or part thereof is not an exemption and does not satisfy any credit requirements for a degree.

10.7.4.12 Rotation in Large Ensembles

When possible, and to help ensure equal opportunity and experience for students in the large instrumental ensembles, the seating of students in these ensembles may be rotated periodically throughout the term or year. The director of the ensemble, along with the guidance of the Area Coordinator and/or practical instruction teachers, will determine whether or not rotation is possible.

10.7.4.13 Transfer Credits

The previous ensemble participation of students coming to McGill from other universities will be recognized if their ensemble experience was similar to that required by the Schulich School of Music; determination of this experience will be approved by the Area Coordinator and the Department Chair. In general, transfer credit is made on a term-for-term basis (not by credits) and usually does not exceed two (2) terms. Students are normally not permitted to reduce the large ensemble training requirements of their McGill program to less than the number of terms required for them to complete the rest of their program. In such cases, transfer credit may be given as music and/or free elective credit for students in non-performance programs. Students in performance may apply a maximum of four credits as complementary performance courses.

10.7.4.14 Large Ensemble Extra Credits

Based on the admitted program, large ensemble credits accumulated above the minimum may be applied as music and/or free elective credits. In addition, students in performance may apply a maximum of four **MUEN** credits as complementary performance courses. Participation in additional large or small ensembles implies that the same policies will apply.

10.7.4.15 Performance Library

Students are responsible for the music that has been loaned to them for their use, and for its return in good condition to the Gertrude Whitley Performance Library. Students will be required to pay for the replacement of any music that has been lost, stolen, or damaged, and a hold on a student's Minerva account can be placed by the Performance Librarian should music or fines not be handed in to the library.

10.7.5 Accompanying

Music students registered for practical instruction (including elective study) in one of the eligible instruments may request Accompanist Funding up to a maximum number of hours. Further details are available from the Department of Performance Office (performance.music@mcgill.ca).

10.7.6 Academic Category

All Music students are registered in one of the following categories:

Academic Categories

Major: B.Mus. candidates may choose one or more of several majors as described under [section 10.8: Browse Academic Units & Programs](#).

Faculty Program: a flexible B.Mus. program (see [section 10.8.1.4: Bachelor of Music \(B.Mus.\) - Faculty Program Music \(123 credits\)](#) and [section 10.8.1.5: Bachelor of Music \(B.Mus.\) - Faculty Program Music - Jazz \(123 credits\)](#)).

L.Mus.: Diploma programs are designed for advanced instrumentalists and singers who wish to concentrate on their practical subject.

Special: those who are not proceeding towards a degree or diploma.

Visiting: those taking courses at McGill for credit towards a degree at another university.

Exchange: those taking courses at McGill as an exchange student from one of McGill's approved list of bilateral exchange partners.

10.7.7 Auditing

For information on auditing, see [University Regulations and Resources](#) > [Undergraduate](#) > [Registration](#) > [section 1.3.2.7: Auditing of Courses](#).

10.7.8 Electives

10.7.8.1 Free/Music Electives

Unless otherwise specified, any music course that is not a required course in the student's program can be counted as a Free and/or Music Elective in the B.Mus. program subject to prerequisites and room in the course. Ensemble credits accumulated above the minimum may be applied as Free and/or Music Elective credits with limitations depending on the program. Students in a Bachelor of Music or Licentiate in Music are not permitted to take courses with MUAR prefixes and use them as electives for the program.

10.7.8.2 Non-Music Electives

In most B.Mus. programs, students are required to complete a minimum of nine (9) elective credits from non-music courses, i.e., courses offered by faculties other than the Schulich School of Music. **Students should verify the elective requirement for their admitted program from the [Schulich School of Music website](#) as each program differs.**

Exemptions

Students are exempt from six (6) non-Music elective credits if they hold one Diploma of College Studies (DCS;1 151.364 544.102 T1 0 0 1c

Failed), unless an e

courses specified by course number, and all prerequisite or corequisite courses. A grade of D (non-continuation pass) is acceptable only in elective courses that are not prerequisite or corequisite to other required courses in the program.

- 2.** Minimum cumulative grade point average of 2.00.
- 3.** Completion of a minimum of credits in residence at McGill University (B.Mus.: 60 credits, L.Mus.: 48 credits).

For more information on applying to graduate, see

Note: Students who can demonstrate through auditions and placement tests that they hav

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUSP 346	(2)	Post-Tonal Musicianship

Music History

MUHL 286	(3)	Critical Thinking About Music
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Performance/practical lessons

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementary Courses (13 credits)

13 credits selected as follows:

3 credits from Music Theory

6 credits from Music History

4 credits from Performance

Music Theory

3 credits from the following:

MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1

Music History

6 credits from the following:

MUHL 385	(3)	Early Twentieth-Century Music
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945

Performance/ensemble

4 credits from the following:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Non-Music Electives (3 credits)

Free Electives (18 credits)

Recommended courses:

MUCO 462	(3)	Advanced Tonal Writing
MUCO 542	(3)	Advanced Digital Studio Composition 2
MUHL 388	(3)	Opera After 1900
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 528	(3)	Schenkerian Theory and Analysis
MUTH 538	(3)	Mathematical Models for Musical Analysis
MUTH 539	(3)	Topics in Advanced Writing Techniques

10.8.1.2 Bachelor of Music (B.Mus.) - Major Music History (124 credits)

The undergraduate music history program focuses on the place of music in different cultural contexts, the social conditions of musicians, the evolution of performing styles, and the different ways music can project meaning and reflect identity, including the parameters of different musical styles and musical syntax. Exposure to a wide variety of repertoire in the Western classical tradition as well as to jazz and popular idioms.

Music History provides excellent preparation not only for graduate study in musicology, but also for a considerable range of professional training programs including journalism, information sciences, arts administration, and teaching.

The Bachelor of Music (B.Mus.) – Major Music History Program requires 92 credits (plus 32 credits for the Freshman requirement for out-of-province students).

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (23 credits)

History

MUHL 286	(3)	Critical Thinking About Music
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Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

MUHL 388	(3)	Opera After 1900
MUHL 389	(3)	Orchestral Literature
MUHL 390	(3)	The German Lied
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 396	(3)	Era of the Modern Piano
MUHL 397	(3)	Choral Literature after 1750
MUHL 398	(3)	Wind Ensemble Literature after 1750

Group III

MUHL 314	(3)	Women in Music: A Cross-Cultural Perspective
MUHL 330	(3)	Music and Film
MUHL 342	(3)	History of Electroacoustic Music
MUHL 362	(3)	Popular Music
MUHL 375	(3)	Introduction to Ethnomusicology
MUHL 393	(3)	History of Jazz
MUHL 529	(3)	Proseminar in Musicology
MUHL 592	(3)	Popular Music Studies

Theory

3 credits of MUTH courses at the 200 or 300 level.

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Performance

Basic Ensemble

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Elective Cour

Musicianship

6 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUSP 346	(2)	Post-Tonal Musicianship

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music
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Performance

6 credits

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementary Courses (40 credits)

40 credits selected as follows:

30 credits of Theory (Complementary)

6 credits of Music History

4 credits of Performance

Theory

30 credits

6 credits selected from:

MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2

6 credits selected from:

MUTH 321	(3)	Topics in Tonal Analysis
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 426	(3)	Topics in Early Music Analysis
MUTH 541	(3)	Topics in Popular Music Analysis

6 credits selected from:

MUTH 528	(3)	Schenkerian Theory and Analysis
MUTH 529	(3)	Proseminar in Music Theory
MUTH 538	(3)	Mathematical Models for Musical Analysis

12 credits selected from courses not taken above and the following:

MUCO 462	(3)	Advanced Tonal Writing
MUCO 575	(3)	Topics in Composition
MUTH 539	(3)	Topics in Advanced Writing Techniques

Music History

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (22 credits)

22 credits of the required courses are selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music
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Performance

6 credits

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementary Courses (12 credits)**Music History**

6 credits

(Courses at 300-level or higher with a MUHL or MUPP prefix).

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
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Musicianship for W

MUJZ 161	(3)	Jazz Materials 2
MUJZ 170	(1)	Jazz Keyboard Proficiency 1
MUJZ 171	(1)	Jazz Keyboard Proficiency 2
MUJZ 187	(3)	Jazz History Survey
MUPD 135	(1)	Music as a Profession 1
MUPD 235	(1)	Music as a Profession 2
MUSP 123	(2)	Jazz Ear Training 1
MUSP 124	(2)	Jazz Ear Training 2

Required Courses (25 credits)

25 credits of the required courses are selected as follows:

12 credits of Theory

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Theory

12 credits

MUJZ 262	(3)	Applied Jazz Theory
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship

4 credits

MUJZ 213	(2)	Fundamentals of Jazz Improvisation 1
MUJZ 214	(2)	Fundamentals of Jazz Improvisation 2

Music History

3 credits

MUHL 286	(3)	Critical Thinking About Music
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Performance

6 credits

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementary Courses (12 credits)**Music History**

6 credits

(Courses with a MUHL or MUPP prefix.)

Musicianship

2 credits from:

MUJZ 323	(2)	Advanced Jazz Ear Training
MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Performance

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Music Electives (20 credits)
Non-Music Electives (3 credits)
Free Electives (30 credits)
10.8.1.6 Special Prerequisite Courses for M.Mus. in Sound Recording

Students wishing to follow this package of prerequisite courses while registered in the Faculty Program or in any other B.Mus. program must notify the Sound Recording Area Coordinator of their intent to do so.

Special Prerequisite Courses for M.Mus. Sound Recording

Schulich School of Music – Required Courses		Credits (18)
MUCO 260	Instruments of the Orchestra	3
MUMT 250	Music Perception and Cognition	3
MUSR 232	Introduction to Electronics	3
MUSR 300D1/D2	Introduction to Music Recording	6
MUSR 339	Introduction to Electroacoustics	3
Faculty of Science – Required Course		Credits (3)
PHYS 224	Physics of Music	3

Special Prerequisite Courses for M.Mus. Sound Recording

One of the following:		Credits (3)
MUMT 202	Fundamentals of New Media	3
MUMT 203	Introduction to Digital Audio	3
One of the following:		Credits (3)
MUMT 302	New Media Production 1	3
MUPD 204	Production for Digital Media 1	3
TOTAL: 27 Credits		

For the most up-to-date information about special prerequisite courses for the M.Mus. in Sound Recording, consult the [Sound Recording Program website](#).



Note: Students admitted as a Special Student in the prerequisite package for Sound Recording must meet with the Sound Recording Adviser prior to registration. In order to be considered for admission to the Master of Music in Sound Recording, students must attain a minimum grade of B in all of the above courses and must have a B.Mus. degree with a minimum CGPA of 3.00.

10.8.1.7 Bachelor of Music (B.Mus.) - Minor Composition (18 credits)

The Minor Composition is available to all students with approval (with the exception of students in the Major Composition.) This option will take the place of music and/or free electives.

Required Courses (9 credits)

(3) The Art of Composition

MUMT 301	(3)	Music and the Internet
MUPD 200	(3)	Introduction to Music Marketing
MUPD 201	(3)	Business Fundamentals for Musicians
MUPD 475*	(3)	Special Project: Professional Development 3
MUPD 499*	(3)	Internship: Music Professional Development
MUSR 200	(3)	Audio Recording Essentials
MUSR 201	(3)	Audio Production Essentials

* To be counted towards the Minor in Music Entrepreneurship, the internship placement or project must be approved as having an entrepreneurial focus.

0-3 credits chosen from the following:

BUSA 465	(3)	Technological Entrepreneurship
MGPO 364	(3)	Entrepreneurship in Practice
MGPO 438	(3)	Social Entrepreneurship and Innovation
PSYC 471	(3)	Human Motivation

10.8.1.10 Bachelor of Music (B.Mus.) - Minor Music History (18 credits)

The Minor Music History is available to all students (with the exception of students in the Major in Music History program). This option will take the place of music electives and/or free electives, as well as history, literature, and performance practice complementary courses.

Complementary Courses

Music History

18 credits selected from MUHL or MUPP prefix at the 300 level or higher.

10.8.1.11 Bachelor of Music (B.Mus.) - Minor Music Theory (18 credits)

The Minor in Theory is available to all students, with the exception of students in the Major Theory, subject to approval of the Schulich School of Music. This Minor will take the place of free electives in Music programs.

Complementary Courses

MUCO 462	(3)	Advanced Tonal Writing
MUCO 575	(3)	Topics in Composition
MUJZ 260	(3)	Jazz Arranging 1
MUJZ 261	(3)	Jazz Arranging 2
MUMT 250	(3)	Music Perception and Cognition
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1

Tm(Analysis 4) Theory and Analysis point 1

MUTH 539	(3)	Topics in Advanced Writing Techniques
MUTH 541	(3)	Topics in Popular Music Analysis

10.8.1.12 Bachelor of Music (B.Mus.) - Minor Musical Applications of Technology (18 credits)

The goal of this Minor is to provide instruction in practical and creati

MUMT 501 (3) Digital Audio Signal Processing

Complementary Courses (3 credits)

3 credits selected from:

MUMT 402 (3) Advanced Multimedia Development

MUMT 502 (3) Senior Project: Music Technology

PHYS 224 (3) Physics of Music

10.8.2 Department of Performance

The Department offers undergraduate and graduate degree programs leading to the B.Mus., M.Mus., and D.Mus., and diploma programs leading to the L.Mus., Graduate Diploma in Performance, and Graduate Artist Diploma. Programs include regular practical instruction available on all instruments, a comprehensive range of large instrumental and choral ensembles, and a highly developed small ensemble program in all areas of study. The Department's ensembles present a full season of performances on campus and regularly travel for appearances in important North American centres. In recent years, McGill ensembles have performed at Montreal's *Maison Symphonique* and *Monument National*, Toronto's Koerner Hall and Canadian Opera Company, as well as Ottawa

Large Ensemble during the first four terms (2 credits x 4 semesters).

8 credits* from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 587	(2)	Cappella McGill
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

4 credits* from:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 556	(1)	Introduction to Collaborative Piano 1
MUEN 557	(1)	Introduction to Collaborative Piano 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 569	(1)	Tabla Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 581	(1)	Introduction to Ensemble Playing for Pianists
MUEN 582	(1)	Piano Ensembles
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass

* All ensembles courses under MUEN may be taken in multiple terms.

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 355	(2)	Musicianship for Percussion

Music History/Literature/Performance Practice (6 credits)

3 credits selected from:

MUHL 366	(3)	The Era of the Fortepiano
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 396	(3)	Era of the Modern Piano

3 credits from courses with a MUHL or MUPP prefix

Elective Courses (26 credits)

3 credits of Non-Music Electives

23 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.2 Bachelor of Music (B.Mus.) - Major Performance Voice (123 credits)

The Bachelor of Music; Major Performance (Voice) program focuses on vocal pedagogy, repertoire coaching, linguist, theory, and musicology to strengthen artistry in professional singing. In addition to recitals and masterclasses, students are encouraged to take advantage of diverse solo performance opportunities in Opera, Early Music Ensembles, Song Interpretation, a comprehensive Choral Program, the annual McGill Concerto and Wirth Vocal Competitions, and outside venues in Montreal.

The Bachelor of Music (B.Mus.) - Major Performance (Voice) program requires 91 credits (plus 32 credits for the Freshman requirement for out-of-province students).

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams, ensembles, and voice coaching.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
		Musicianship Training 2

MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

Prior to, or concurrent with registration in the corresponding Diction courses, the Voice Major must furnish evidence of having completed English Second Language courses, ITAL 205D1/ITAL 205D2, GERM 202, and FRSL 207, or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements or by extra university courses.

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History/Literature

MUHL 286	(3)	Critical Thinking About Music
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Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (27 credits)

Performance

10 credits* of complementary performance selected from:

MUEN 454	(2)	Introductory Opera Repertoire Experience Opera Studio
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MUIN 301	(2)	Voice Coaching 2
MUPG 296	(1)	Acting for Voice
MUPG 297	(1)	Movement for Voice
MUPG 300	(2)	Music Performance Strategies
MUPG 309	(1)	Advanced Diction
MUPG 353	(2)	Song Repertoire Class
MUPG 380	(2)	Oratorio Class
MUPG 453	(2)	Contemporary Repertoire for Voice

MUEN courses at the 400 or 500 level (maximum 4 credits)

Musicianship

2 credits from

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

Music History/Literature/Performance Practice

6 credits from:

MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 377	(3)	Baroque Opera
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied

Elective Courses (20 credits)

3 credits of non-Music Electives

17 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.3 Bachelor of Music (B.Mus.) - Major Performance (Orchestral Instruments) (125 credits)

The Bachelor of Music; Major Performance (Orchestral Instruments) program provides comprehensive training in the practical and theoretical elements of music. Throughout the program, students receive individual instruction, participate in chamber music and other small ensembles, and perform in large3)Throughout the

Prerequisite Courses

Complementary Courses (33 credits)

Extended T

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSMc6 0 0 1 221.9p	(2)	Musicianship Training 1

Music as a Profession 2

MUPG 474 (2) Special Project in Performance

Musicianship

2 credits from:

MUSP 346 (2) Post-Tonal Musicianship
MUSP 354 (2) Introduction to Improvisation and Ornamentation
MUSP 381 (2) Singing Renaissance Notation

History/Literature/Performance Practice

3 credits from:

MUHL 377 (3) Baroque Opera
MUHL 380 (3) Medieval Music
MUHL 381 (3) Renaissance Music
MUHL 382 (3) Baroque Music
MUHL 383 (3) Classical Music
MUHL 395 (3) Keyboard Literature before 1750
MUHL 591D1 (1.5) Paleography
MUHL 591D2 (1.5) Paleography

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.5 Bachelor of Music (B.Mus.) - Major Early Music Performance (Voice) (126 credits)

The Bachelor of Music; Major Early Music Performance (Voice) program provides comprehensive training in historical performance practice and in singing period repertoire. The program combines individual lessons and ensembles with the study of historical approaches to performance in its various activities - workshops, master classes, guest lectures, and research projects.

The Bachelor of Music (B.Mus.); Major Early Music Performance (Voice) program requires 92 credits (plus 34 credits for the Freshman requirement for out-of-mance (V1.7.1histori1 5oa123.3Fu1es 2x)23 credits)Tj085i1847270.52 7ge E approaits of Free Electi16922.0.52 76)

Music History/Literature/Performance Practice

MUHL 286	(3)	Critical Thinking About Music
MUPP 381	(3)	Topics in Performance Practice

Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (15 credits)

Performance

MUHL 591D2 (1.5) Paleography

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.6 Bachelor of Music (B.Mus.) - Major Performance Jazz (126 credits)

The Bachelor of Music; Major in Performance Jazz provides comprehensive training for jazz musicians. The curriculum includes jazz theory and harmony, keyboard, history, performance practice, improvisation, composition, and arranging. Throughout the program, students receive individual instruction and participate in jazz orchestras, ensembles, and combos.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of MUEN 570 Jazz Combo

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses listed below, will be exempt from them and may proceed to more advanced courses.231261434619 45 for jaz2 0 1 165.864 725.56 261434619 45(2 0 0 1 70.52 725.56 261434619 45MUSP

Small Ensemble

MUEN 570* (1) Jazz Combo

*This course is taken in four semesters for 4 credits.

Jazz Improvisation

MUJZ 223 (3) Jazz Improvisation/Musicianship 1

MUJZ 224 (3) Jazz Improvisation/Musicianship 2

MUJZ 423 (3) Jazz Improvisation/Musicianship 3

MUJZ 424 (3) Jazz Improvisation/Musicianship 4

Jazz Theory

MUJZ 260 (3) Jazz Arranging 1

MUJZ 261 (3) Jazz Arranging 2

MUJZ 340 (3) Jazz Composition 1

MUJZ 341 (3) Jazz Composition 2

History/Literature/Performance Practice

MUHL 286 (3) Critical Thinking About Music

MUJZ 493 (3) Jazz Performance Practice

Professional Development

MUPD 235 (1) Music as a Profession 2

Complementary Courses (14-18 credits)

Performance

Small Ensemble

MUEN 570* (1) Jazz Combo

*Taken in two semesters for 2 credits.

OR

MUEN 574* (1) Afro-Cuban/Brazilian Jazz Combo

*Taken in two semesters for 2 credits.

Large Ensemble

Note: students playing Rhythm Section instruments (piano, guitar, bass, drums, vibraphone) can substitute 4 credits of large ensemble with free electives). 8-12 credits from*:

* All ensemble courses under MUEN may be taken in multiple terms.

MUEN 563 (2) Jazz Vocal Workshop

MUEN 572 (2) Cappella Antica

MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Advanced Jazz

4 credits from either MUJZ 440 and MUJZ 441, or MUJZ 461D1/D2:

MUJZ 440	(2)	Advanced Jazz Composition 1
MUJZ 441	(2)	Advanced Jazz Composition 2
MUJZ 461D1	(2)	Advanced Jazz Arranging
MUJZ 461D2	(2)	Advanced Jazz Arranging

Elective Courses (21-25 credits)

MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

6 credits from the following:

MUCO 261	(3)	Orchestration 1
MUCO 360	(3)	Orchestration 2
MUHL 383	(3)	Classical Music
MUHL 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 389	(3)	Orchestral Literature
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 397	(3)	Choral Literature after 1750
MUHL 398	(3)	Wind Ensemble Literature after 1750

Choral Stream

4 credits from the following:

MUPG 316D1	(2)	Introduction to Choral Conducting
MUPG 316D2	(2)	Introduction to Choral Conducting

Large Ensembles

4 credits from the following:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 593	(2)	Choral Ensembles

6 credits from the following:

MUCO 261	(3)	Orchestration 1
MUCT 235	(3)	Vocal Techniques
MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900

MUHL 390	(3)	The German Lied
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 397	(3)	Choral Literature after 1750 Paleograph

MUHL 591D2	(1.5)	Paleography
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2
MUTH 426	(3)	Topics in Early Music Analysis

6 credits from the following (for Voice students only):

MUIN 302	(1.5)	Early Music Minor Repertoire Coaching 1
MUIN 303	(1.5)	Early Music Minor Repertoire Coaching 2
MUIN 304	(1.5)	Early Music Minor Repertoire Coaching 3
MUIN 305	(1.5)	Early Music Minor Repertoire Coaching 4

OR

Required Courses (18 credits)

MUEN 570*	(1)	Jazz Combo
MUIN 273	(1.5)	Practical Lessons Performance Minor 3
MUIN 274	(1.5)	Practical Lessons Performance Minor 4
MUJZ 160	(3)	Jazz Materials 1
MUJZ 161	(3)	Jazz Materials 2
MUJZ 213	(2)	Fundamentals of Jazz Improvisation 1
MUJZ 214	(2)	Fundamentals of Jazz Improvisation 2
MUJZ 262	(3)	Applied Jazz Theory

* 2 credits in MUEN 570.

10.8.2.11 Licentiate in Music (L.Mus.) - Major Performance Piano (93 credits)

The Licentiate in Music (L.Mus.) Major Performance Piano is a 93-credit program.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (52 credits)

MUIN 250	(6)	L.Mus. Practical Instruction 1
MUIN 251	(6)	L.Mus. Practical Instruction 2
MUIN 252	(4)	L.Mus. Performance 1 Examination
MUIN 333	(0)	Piano Techniques 2
MUIN 350	(6)	L.Mus. Practical Instruction 3
MUIN 351	(6)	L.Mus. Practical Instruction 4
MUIN 352	(4)	L.Mus. Performance 2 Examination
MUIN 369	(0)	Concerto
MUIN 433	(0)	Piano Techniques 3
MUIN 450	(4)	L.Mus. Practical Instruction 5
MUIN 451	(4)	L.Mus. Practical Instruction 6
MUIN 452	(8)	L.Mus. Performance 3 Examination
MUPG 541	(2)	Senior Piano Seminar 1
MUPG 542	(2)	Senior Piano Seminar 2

Complementary Performance (14 credits)

Large Ensemble – during the first four terms (2 credits x 4 semesters).

14 credits selected as follows:

8 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra

History

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

10.8.2.12 Licentiate in Music (L.Mus.) - Major Performance (All Instruments except Piano, Voice and Jazz) (93 credits)

The Licentiate in Music (L.Mus.) Major Performance in All Instruments except Piano, Voice, and Jazz is a 93-credit program.

Ensemble Requirements:

1. Students majoring in violin, viola, or cello must commence their assigned ensembles with four terms of string quartets.
2. Violin Majors will be required to complete two terms of ensemble playing on viola.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Students must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

48 credits selected as follows:

MUIN 250	(6)	L.Mus. Practical Instruction 1
MUIN 251	(6)	L.Mus. Practical Instruction 2
MUIN 252	(4)	L.Mus. Performance 1 Examination
MUIN 350	(6)	L.Mus. Practical Instruction 3
MUIN 351	(6)	L.Mus. Practical Instruction 4
MUIN 352	(4)	L.Mus. Performance 2 Examination
MUIN 450	(4)	L.Mus. Practical Instruction 5
MUIN 451	(4)	L.Mus. Practical Instruction 6
MUIN 452	(8)	L.Mus. Performance 3 Examination

Complementary Performance (18 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

18 credits selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 565	(2)	String Quartet Seminar
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Assigned Small Ensemble - during every term of enrolment as a full-time or part-time student.

6 credits from:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 562	(1)	Guitar Ensemble
MUEN 580	(1)	Early Music Ensemble
MUEN 585	(1)	Sonata Masterclass
MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort
MUEN 598	(1)	Percussion Ensembles

Required Courses (25 credits)

25 credits of required courses selected as follows:

9 credits of Theory

10 credits of Musicianship

6 credits of History

Theory

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History

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MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

10.8.2.13 Licentiate in Music (L.Mus.) - Major Performance Voice (105 credits)

The Licentiate in Music (L.Mus.) Major Performance V

MUPG 453 (2) Contemporary Repertoire for Voice

Complementary Musicianship (2 credits)

2 credits from:

MUSP 346 (2) Post-Tonal Musicianship
 MUSP 353 (2) Musicianship for Voice
 MUSP 354 (2) Introduction to Improvisation and Ornamentation
 MUSP 381 (2) Singing Renaissance Notation

Required Courses (34 credits)

Diction (9 credits)

MUPG 209 (1) Introduction to Lyric Diction
 MUPG 210 (2) Italian Diction
 MUPG 211 (2) French Diction
 MUPG 212 (2) English Diction
 MUPG 213 (2) German Diction

Theory (9 credits)

MUTH 150 (3) Theory and Analysis 1
 MUTH 151 (3) Theory and Analysis 2
 MUTH 250 (3) Theory and Analysis 3

Musicianship (10 credits)

MUSP 140 (2) Musicianship Training 1
 MUSP 141 (2) Musicianship Training 2
 MUSP 170 (1) Musicianship (Keyboard) 1
 MUSP 171 (1) Musicianship (Keyboard) 2
 MUSP 240 (2) Musicianship Training 3
 MUSP 241 (2) Musicianship Training 4

History (6 credits)

MUHL 186 (3) Western Musical Traditions
 MUHL 286 (3) Critical Thinking About Music

10.8.2.14 Special Prerequisite Courses for M.Mus. in Performance

Master of Music (M.Mus.) Performance: Early Music (Thesis)

MUPD 560 (1) Introduction to Research Methods in Music

3 credits from the following:

MUHL 377 (3) Baroque Opera
 MUHL 380 (3) Medieval Music
 MUHL 381 (3) Renaissance Music

Master of Music (M.Mus.) Performance: Early Music (Thesis)

MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUPP 381	(3)	Topics in Performance Practice
MUTH 426	(3)	Topics in Early Music Analysis

Fortepiano students:

MUHL 366	(3)	The Era of the Fortepiano
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Harpsichord students:

Master of Music (M.Mus.) Performance: Opera and Voice (Thesis)**3 credits from the following:**

MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 377	(3)	Baroque Opera
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied

Master of Music (M.Mus.) Performance: Organ and Church Music (Thesis)

MUPD 560	(1)	Introduction to Research Methods in Music
MUPG 272D1/D2	(4)	Continuo

Master of Music (M.Mus.) Performance: Conducting (Thesis)

MUPD 560	(1)	Introduction to Research Methods in Music
MUSP 500D1/D2	(2)	Keyboard for Professional Practice

Choral Conducting:

MUCO 261	(3)	Orchestration 1
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2 credits from the following:

MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

Instrumental Conducting:**3 credits from the following:**

MUCO 261	(3)	Orchestration 1
MUCO 360	(3)	Orchestration 2

Master of Music (M.Mus.) Performance: Jazz Performance (Thesis)

MUJZ 187	(3)	Jazz History Survey
MUJZ 440D1/D2	(4)	Advanced Jazz Composition
MUJZ 461D1/D2	(4)	Advanced Jazz Arranging

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- 8 credits in Free Electives

Students in the concurrent B.Mus./B.Ed. who receive an F or J in any Field Experience course are placed in Unsatisfactory Standing. Although they may complete their term, they are required to withdraw from the Concurrent program; however, they may apply to transfer to the B.Mus. Faculty program.

10.8.3.1 Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits)

The Concurrent B.Mus./B.Ed. combines the Bachelor of Music (Major Music Education) with the Bachelor of Education (Music Elementary and Secondary).

Requirements are normally completed in five years and lead to certification as a school teacher in the Province of Quebec. Out-of-province students (or those without Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the Concurrent program) are required to complete 170 credits, normally in six years.

Applicants who already hold a Bachelor of Music degree from a North American university should apply directly to the Bachelor of Education in Music Elementary and Secondary (B.Ed. Music) program offered by the Faculty of Education <https://www.mcgill.ca/dise/progs/music>.

Notes:

1. Students majoring in Music Education in the jazz stream may take Jazz Arranging 1 (MUJZ 260) with the permission of the instructor, per available space in the course, and if they have the prerequisite, MUJZ 161. Alternatively, they may be asked to register for a different jazz stream course upon the recommendation of the Jazz Area Chair and/or the Music Education Area Chair.
2. In addition to meeting prerequisites/co-requisites for MUCO 230 or MUCO 261, students must obtain the relevant instructor's permission, per available space in the course, prior to registration. MUCO 260 is waived as a prerequisite for MUCO 230.

The B.Mus. Major Music Education program in the Schulich School of Music focuses on the development of prospective music educators as musicians. This is achieved both through core music history, theory, musicianship, and performance courses, as well as through different instrumental, vocal, and conducting techniques courses. Laboratory experiences provide an opportunity to develop facility with basic music rehearsing/teaching techniques, with emphasis on the ability to diagnose and correct technical and musical problems. The B.Ed. Music Elementary and Secondary program in the Faculty of Education focuses on the development of the musicians as educators. This is achieved through courses in educational foundations, music pedagogy, pedagogical support, and a practicum component comprised of four field experiences and supporting professional seminars.

The components of the 137-credit Concurrent Bachelor of Music - Major Music Education and Bachelor of Education - Music Elementary and Secondary (excluding the 33-credit Freshman Program) are as follows:

58 credits in Education

71 credits in Music

8 free elective credits

Program Prerequisites - Freshman Program

33 credits

Prerequisite Courses

33 credits distributed as follows:

4 credits (2 credits per term) Basic Ensemble Training

6 credits of non-Music electives

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Music concentration or equivalent, or students transferring from other universities or colleges, who have successfully completed a course in the history of Western music will be exempted from the first-year Western Musical Traditions requirement (MUHL 186).

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 235	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1

MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Music Components (50 credits)

50 credits of required Music courses distributed as follows:

25 credits of Music Education

9 credits of Theory

3 credits of Composition/Arranging

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Music Education

25 credits:

MUCT 235	(3)	Vocal Techniques
MUGT 215	(1)	Basic Conducting Techniques
MUGT 354	(3)	Music for Children
MUGT 358	(3)	General Music for Adults and Teenagers
MUGT 401	(3)	Issues in Music Education
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

Theory

9 credits:

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Composition/Arranging

3 credits:

MUCO 230	(3)	The Art of Composition
MUCO 261	(3)	Orchestration 1
MUJZ 260	(3)	Jazz Arranging 1

Musicianship

4 credits:

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits:

MUHL 286	(3)	Critical Thinking About Music
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Performance

6 credits:

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementary Music Components (21 credits)

21 credits of complementary Music courses distributed as follows:

9 credits of Music Education

2 credits of Musicianship

6 credits of Music History

4 credits of Performance

Music Education

3 credits, one of:

MUIT 201	(3)	String Techniques
MUIT 250	(3)	Guitar Techniques

3 credits, one of:

MUCT 315	(3)	Choral Conducting 1
MUIT 315	(3)	Instrumental Conducting

3 credits, select EDEA 362 or any course with a prefix of MUIT or MUGT.

EDEA 362	(3)	Movement, Music and Communication
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Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornammentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

Music History

6 credits of courses with a MUHL or a MUPP prefix.

Performance

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
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

Electives (8 credits)

8 credits of free electives

Required Education Courses (46 credits)

EDEA 206	(1)	1st Year Professional Seminar
EDEA 208	(1)	Second Professional Seminar (Music)
EDEA 407	(3)	Final Year Professional Seminar Music
EDEA 442	(3)	Methods in Music Education 1
EDEA 472	(3)	Methods in Music Education 2
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 260	(3)	Philosophical Foundations
EDES 350	(3)	Classroom Practices
EDFE 205	(2)	First Field Experience (Music)
EDFE 208	(3)	Second Field Experience (Music)
EDFE 308	(8)	Third Field Experience (Music)
EDFE 407	(7)	Fourth Field Experience (Music)
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

Required Indigenous Studies Course

EDEC 233	(3)	Indigenous Education
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or any other course with Indigenous Studies content approved by the Faculty of Education.

Complementary Education Courses (9 credits)

9 credits distributed as follows:

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEC 262	(3)	Media, Technology and Education
MUGT 301	(3)	Technology and Media for Music Education

3 credits from:

EDEE 355	(3)	Classroom-based Evaluation Measurement and Ev
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Note: Students who are taking practical instruction in fulfilment of the requirements for any degree or diploma are required to study with teachers on the staff of the Schulich School of Music.

10.9.2 Examinations and Goals in Practical Subjects

Different levels of achievement are required of students depending upon the program of study for which they are registered. These levels are defined in part by the difficulty of material and length of the program required at the various examinations, and in part by the examiners' assessment of how well the student plays this material.

In general, there are five categories of practical study:

- Concentration Study
- Major Study
- Licentiate Study
- Postgraduate Study
- Elective Study

10.9.2.1 Concentration Study

Students in the:

- B.Mus. Faculty Program;
- Faculty Program – Jazz concentration; or
- Major in Music Composition, Music Education, Music History

Licentiate Study Sequence

MUIN 352	L.Mus. Performance 2 Examination
MUIN 450	L.Mus. Practical Instruction 5
MUIN 433	Piano Techniques 3 (pianists only)
MUIN 451	L.Mus. Practical Instruction 6
MUIN 452	L.Mus. Performance 3 Examination
MUIN 369	Concerto (mandatory test for pianists)

Examinations:

L.Mus. Performance 1 Examination (MUIN 252)

Purpose: To assess the student's progress in the practical area and determine whether or not the student may continue in the program. The panel may recommend to the Department that the student be: a) asked to withdraw from the program; or b) permitted to continue to the L.Mus. Performance 2 Exam.

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- Organ
- Percussion
- Piano
- Strings
- Voice
- Woodwinds

are available on the area's program webpage at mcgill.ca/music/programs or may be obtained from the Department of Performance Office.

10.10.1 Application for Examination

Examinations and recitals must be presented in one of the official final examination periods. See mcgill.ca/importantdates for Fall and Winter; Summer graduands see special procedures in the *Special procedures for September Exams (Graduating Students Only)* section below.

All students wishing to present a required practical examination should register for the exam by the course drop/add deadline. Registrations *after* that date will be accepted with permission of the Department of Performance up to the deadlines stated below.

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11 Faculty of Science

11.1 About the Faculty of Science

The Faculty of Science aims to be a leader in finding solutions critical to economic and human development, including ke

Finally, the Faculties of Arts and Science jointly offer the Bachelor of Arts and Science (B.A. & Sc.), which is described in [Bachelor of Arts & Science](#).

11.4 About the Faculty of Science (Undergraduate)

11.4.1 Location

Dawson Hall

853 Sherbrooke Street West

Montreal QC H3A 0G5

Canada

Telephone: 514-398-5442

Faculty website: mcgill.ca/science

Science Office for Undergraduate Student Advising (SOUSA): mcgill.ca/science/undergraduate/advice/sousa

The Science Office for Undergraduate Student Advising (SOUSA) is located in Dawson Hall, room 405. SOUSA serves students in the B.Sc. and B.A. &

Associate Dean (Graduate Education)

Laura Nilson; B.A.(Colgate), Ph.D.(Yale)

Associate Dean (Research)

John Stix; A.B.(Dart.), M.Sc., Ph.D.(Tor.)

11.4.4 Science Office for Undergraduate Student Advising (SOUSA)

The Science Office for Undergraduate Student Advising (SOUSA) provides ongoing advice and guidance on academic issues related to programs, degree requirements, registration, course change, withdrawal, deferred exams, supplemental exams, Academic Standing, inter- and intra-faculty transfer, year or term aw

11.6.1.1 Advanced Standing

Advanced Standing of up to 30 credits may be granted to students who obtain satisfactory results in International Baccalaureate, French Baccalaureate, Advanced Levels, Advanced Placement tests, or the Diploma of Collegial Studies (DCS). Quebec students with a DCS in Science are granted 30 credits Advanced Standing and will have normally completed the equivalent of, and are therefore exempt from, the basic science courses in biology, chemistry, mathematics, and physics. Students with satisfactory results in International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced Placement tests may be exempt from some or all of the basic science courses. You will not be given additional credit toward your degree for any McGill course where the content overlaps substantially with any other course for which you have already received credit, such as for Advanced Standing results.

AP Examination results with a score of 4 or 5 **must** be declared by you at the time of initial registration at the University.

For more information about Advanced Standing, consult: mcgill.ca/students/transferecredit.

11.6.1.2 Equivalencies for Non-Basic Science Courses

Note that equivalencies for some non-basic science courses, such as CHEM 212 and CHEM 222 and PSYC 204, are granted on a per-CEGEP basis. In some cases, a grade greater than the minimum passing grade may be required. For more information about equivalences for non-basic Science courses, please consult: mcgill.ca/students/transferecredit/prospective/cegep.

If the CEGEP and/or course is not listed on this website, you should refer to your SOUSA adviser at mcgill.ca/science/undergraduate/advice/sousa.

11.6.1.3 Readmission after Interruption of Studies for a Period of Five Consecutive Years or More

If you are readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of a program. In this case, a new CGPA will be calculated. The Associate Dean, Student Affairs for Science, in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are subject to the program and degree requirements in effect at the time of readmission. The Associate Dean, Student Affairs for Science, in consultation with the department, may approve exemption from any new requirements.

11.6.2 Residency Requirement

To obtain a B.Sc. degree, you must satisfy the following residency requirements: a minimum of 60 credits of courses used to satisfy the B.Sc. degree requirements must be taken and passed at McGill, exclusive of any courses completed as part of the Science Freshman program; see [section 11.13.1: B.Sc. Freshman Program](#). At least two-thirds of all departmental program requirements (Honours, Major, Core Science Components, or Minor) must normally be completed at McGill not including courses completed in a prior McGill degree. Exceptionally, students in major concentrations or interfaculty or honours programs who pursue an approved Study Away or Exchange program may, with prior approval from both their department and the Associate Dean, Student Affairs, Faculty of Science, be exempted from the two-thirds rule. In addition, some departments may require that their students complete specific components of their program at McGill.

The residency requirement for diploma programs is 30 credits completed at McGill.

11.6.3 Time and Credit Limit for the Completion of the Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the degree.

If you are a student in the Freshman Program, you become subject to these regulations one year after your initial registration. If you want to exceed this time limit, you must seek permission of the Associate Dean, Student Affairs, of the Faculty of Science.

If you are registered in the B.Sc., you are expected to complete the requirements of your program and your degree within 120 credits. You will receive credit for all courses (subject to degree regulations) taken up to and including the semester in which you obtain 120 credits. If you want to remain at McGill beyond that semester, you must also seek permission of the Associate Dean, Student Affairs, Faculty of Science. Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as a change of program (subject to departmental approval) and part-time status. If permission is granted, you will receive credit only for required and complementary courses necessary to complete your program requirements.

Students who have been granted Advanced Standing for the International Baccalaureate, Advanced Placement examinations, GCE A-Levels, French Baccalaureate, and other qualifications may complete 120 credits following admission, as per the university regulations described in [University Regulations and Resources > Student Records > section 1.5.6.1: Advanced Standing Transfer Credits](#).

11.6.4 Program Requirements

The Faculty of Science offers a vast array of study and research opportunities at the undergraduate level, and it is v

11.6.4.1.1 Liberal Programs

Liberal programs provide students with the opportunity to study the core of one science discipline along with a breadth component from another area of science or from many other disciplines. In a liberal program, you must complete a Core Science Component (CSC) (45–50 credits), plus a Breadth Component (at least 18 credits). The requirements for the Core Science Components are given under departmental sections of this publication whenever applicable.

For the Breadth Component, you must complete one of the following:

- Minor Program (18–24 credits) – one of the programs listed in [section 11.10.2: Minor Programs](#).
- Arts Minor or Major Concentration (18 or 36 credits) – one of the programs listed in [section 11.10.5: Arts Major and Minor Concentrations Open to Science Students](#).
- A Core Science Component in a second area (45–50 credits) – at least 24 credits must be distinct from the courses used to satisfy the primary Core Science Component. Note that a second Core Science Component can be selected from any of the Science groups.

11.6.4.1.2 Major Programs

Major programs provide students with the opportunity to study the core of one science discipline along with a breadth component from another area of science or from many other disciplines. In a major program, you must complete a Core Science Component (CSC) (45–50 credits), plus a Breadth Component (at least 18 credits). The requirements for the Core Science Components are given under departmental sections of this publication whenever applicable.

choose to substitute another complementary course for a complementary course in which a D was received, credit for the first course will still be given, but as an elective. If you repeat a required course in which a D was received, credit will be given only once.

Full details of the course requirements for all programs offered are given in each unit's section together with the locations of departmental advisory offices, program directors, and telephone numbers should further information be required.

11.6.5.1 Course Overlap

You will not receive additional credit towards your degree for any course that overlaps in content with a course for which you have already received credit at McGill, CEGEP, at another university, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate. It is your responsibility to consult with a Faculty Adviser in *Arts OASIS*, the *Science Office for Undergraduate Advising* (SOUSA), or the department offering the course as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course description in this publication. Please refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: mcgill.ca/transferecredit.

Sometimes the same course is offered by two different departments. Such courses are called "double-prefix" courses. When such courses are offered simultaneously, you should take the course offered by the department in which you are obtaining your degree. For example, in the case of double-prefix courses CHEM XYZ and PHYS XYZ, Chemistry students take CHEM XYZ and the Physics students take PHYS XYZ. If a double-prefix course is offered by different departments in alternate years, you may take whichever course best fits your schedule.



Note for Arts Students: Credit for computer courses offered by the School of Computer Science is governed by rules specified in each individual course description.



Note for Science and Bachelor of Arts and Science students:

Credit for statistics courses offered by faculties other than Arts and Science requires the permission of the Associate Dean (Student Affairs), Science, except for students in the B.Sc. Major in Environment, who may take required statistics courses in the Faculty of Agricultural and Environmental Sciences necessary to satisfy their program requirements.

Credit for computer courses offered by faculties other than Science requires the permission of the Director of Advising Services and will be granted only under exceptional circumstances.

For Arts, Science, and Bachelor of Arts and Science students

Credit for statistics courses will be given with the following stipulations:

- Credit will be given for **only one** of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, POTH 204, PSYC 204, SOCI 350.
- Credit will be given for **only one** of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, PSYC 305, SOCI 461, with the exception that you may receive credit for both PSYC 305 and ECON 227D1/D2 or ECON 257D1/D2.
- Students who have already received credit for MATH 324 or MATH 357 will **not** receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program/department adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

11.6.5.2 Courses Outside the Faculties of Arts and Science

As a student in the Faculty of Science, you should consult the statement of regulations for taking courses outside the Faculties of Arts and of Science (see below). A list of approved/not-approved courses in other faculties is posted on the SOUSA website (mcgill.ca/science/undergraduate/handbook). You may take courses on the approved list and may not, under any circumstances, take courses on the not-approved list for credit. Requests for permission to take courses that are not on either list should be addressed to the Associate Dean, Student Affairs for Science.

The regulations are as follows:

- You may take only 6 credits per year, up to 18 credits in all, of courses outside the Faculties of Arts and of Science.
- Courses offered "in the Faculty of Science" or "in the Faculty of Arts" are found in the eCalendar [All Courses](#) search, when filtered by "Faculty of Science" or by "Faculty of Arts."
- Courses in other faculties that are considered as taught by Science (e.g., BIOT, EXMD, and PHAR) are so designated as offered by the "Faculty of Science" in the eCalendar [All Courses](#) search.
- Courses in Music are considered as outside the Faculties of Arts and of Science, except MUAR courses, which are considered Arts courses.
- All courses listed in the Religious Studies (RELG) section are considered courses in Arts and Science except for courses restricted to B.Th. or S.T.M. students and courses that require permission from the Chair of the B.Th. Committee.
- Students should consult the list of restricted courses outside of the Faculties of Arts and of Science on the SOUSA website (mcgill.ca/science/undergraduate/handbook).
- You must have the necessary prerequisites and permission of the instructor for such courses.
- Credit for computer and statistics courses offered by faculties other than Arts and Science require the permission of the Associate Dean, Student Affairs for Science and will be granted only under exceptional circumstances.
- If you use Minerva to register for a course, and it exceeds the specified limitations or it is not approved, the course will be flagged for no credit after the course change period.

A list of specific programs in each group is available via the above links. T

11.10.1.3.2 Honours Program

- Neuroscience – application required, see [section 11.13.26: Neuroscience](#) for information, and [section 11.13.26.5: Bachelor of Science \(B.Sc.\) - Honours Neuroscience \(74 credits\)](#)

11.10.1.4 Physical, Earth, Math & Computer Science Group

11.10.1.4.1 Liberal Program – Core Science Components

- Atmospheric Science: [section 11.13.3.5: Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Atmospheric and Oceanic Sciences \(48 cr\)](#)

- Physics: [section 11.13.30.9: Bac](#)

Minor Programs

Electrical Engineering, *section 11.13.30.7: Bachelor of Science (B.Sc.) - Minor Electrical Engineering (24 credits)*

Entrepreneurship for Science Students, *section 11.13.12.2: Bachelor of Science (B.Sc.) - Minor Entrepreneurship for Science Students (18 credits)*

Environment, *section 7.7.1.2: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Minor Environment (18 credits)*

Field Study, *section 11.13.15.1: Field Studies - Minor Field Studies (18 credits)*

Finance for Non-Management Students, *section 11.13.21.1: Bachelor of Commerce (B.Com.) - Minor Finance (For Non-Management Students) (18 credits)*

General Science, *section 11.13.16.3: Bachelor of Science (B.Sc.) - Minor General Science (18 credits)*

Geochemistry, *section 11.13.10.6: Bachelor of Science (B.Sc.) - Minor Geochemistry (18 credits)*

Geography, *section 11.13.17.5*

11.10.5 Arts Major and Minor Concentrations Open to Science Students

For more information, please see the relevant departmental entries in [Faculty of Arts](#) > [Undergraduate](#).

11.10.5.1 Major Concentrations

Major Concentrations

African Studies, *section 3.10.24.1.4: Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)*

Anthropology, *section 3.10.4.7: Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)*

Art History, *section 3.10.5.7: Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)*

Classics, *section 3.10.19.9: Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)*

East Asian Studies, *section 3.10.9.7: Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)*

Economics, *section 3.10.10.5: Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)*

English - Cultural Studies, *section 3.10.13.11: Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)*

English - Drama and Theatre, *section 3.10.13.10: Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)*

English - Literature, *section 3.10.13.9: Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)*

Gender, Sexuality, Feminist, & Social Justice Studies, *section 3.10.17.5: Bachelor of Arts (B.A.) - Major Concentration Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)*

Geography (Urban Studies), *section 4.10.18.9: Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Studies) (36 credits)*

German Studies, *section 3.10.26.12: Bachelor of Arts (B.A.) - Major Concentration German Studies (36 credits)*

Hispanic Languages, *: Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies - Languages (36 credits)*

History, *section 3.10.19.5: Bachelor of Arts (B.A.) - Major Concentration History (36 credits)*

International Development Studies, *section 3.10.23.3.4: Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)*

Italian Studies, *section 3.10.26.20: Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)*

Jewish Studies, *section 3.10.25.5: Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 credits)*

Langue et littérature françaises - Études et pratiques littéraires, *section 3.10.8.9: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)*

Langue et littérature françaises - Traduction, *section 3.10.8.10: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)*

Latin American & Caribbean Studies, *section 3.10.26.28.5: Bachelor of Arts (B.A.) - Major Concentration Latin American & Caribbean Studies (36 credits)*

Linguistics, *section 3.10.27.7: Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)*

Musier

Minor Concentrations

Sociology, [section 3.10.38.5: Bachelor of Arts \(B.A.\) - Minor Concentration Sociology \(18 credits\)](#)

South Asian Studies, [section 3.10.19.12: Bachelor of Arts \(B.A.\) - Minor Concentration South Asian Studies \(18 credits\)](#)

Turkish Language, [section 3.10.24.2.6: Bachelor of Arts \(B.A.\) - Minor Concentration Turkish Language \(18 credits\)](#)

Urdu Language, [section 3.10.24.2.7: Bachelor of Arts \(B.A.\) - Minor Concentration Urdu Language \(18 credits\)](#)

World Cinemas, [section 3.10.22.9.3: Bachelor of Arts \(B.A.\) - Minor Concentration World Cinemas \(18 credits\)](#)

World Islamic & Middle East Studies, [section 3.10.24.2.8: Bachelor of Arts \(B.A.\) - Minor Concentration World Islamic & Middle East Studies \(18 credits\)](#)

11.11 Undergraduate Research Opportunities

McGill is a research-intensive university and research is therefore a cornerstone of undergraduate science education at McGill. Most Science B.Sc. students9u694.12 Tm

11.11.2.2 SURA: Science Undergraduate Research Awards

Science Undergraduate Research Awards—SURAs—are for both Canadian and international McGill students registered in a B.Sc. or B.A. & Sc. science undergraduate program (B.A. students may wish to look into programs offered by the Faculty of Arts). SURAs are broadly similar to the NSERC USRA; two differences are that *international students may apply*, and *supervision is not restricted to professors with NSERC research grants* and thus SURAs can also support social science or medical science research.

See mcgill.ca/science/research/undergraduate-research/sura for details.

11.11.3 Undergraduate Poster Showcase

Each year, the Faculty of Science holds an undergraduate poster showcase to celebrate the work of our undergraduate students. This event, sponsored by the Office of Science Education, is an opportunity for students to present research, projects and assignments completed inside or outside class.

Everyone is welcome to attend.

For more details and the date, please refer to mcgill.ca/ose/undergraduate-poster-showcase.

11.11.4 Getting involved in research as an undergraduate

Opportunities at McGill

Departments and individual researchers at McGill offer various opportunities for undergraduate students to get involved in research. These arrangements may be voluntary or remunerated by academic credit or income.

Some are formal programs that you can find more information about elsewhere in the eCalendar:

- [section 11.11.1: Research Project Courses](#)
- [section 11.11.1.1: "396" Undergraduate Research Project Courses](#)
- [section 11.11.2: Undergraduate Student Research Awards](#)

Others come about through informal discussions between students and professors.

For more information on finding research opportunities at McGill, including tips for contacting researchers, visit mcgill.ca/science/research/undergraduate-research/finding-opportunities.

Internships and field studies

Some science internships and field study programs include a research component. Refer to [section 11.12: Science Internships and Field Studies](#) for more information.

Beyond McGill

You may also want to look for opportunities funded or offered by external foundations or institutions, research agencies, other academic institutions, or scholarly societies. Examples include: a provincial cancer research society, the science funding agency of another country which you wish to visit or where you hold citizenship, research hospitals or universities in another city, or an international psychological association.

11.12 Science Internships and Field Studies

The [Science Internships & Field Studies Office](#) promotes field studies and internship opportunities to interested students seeking hands-on experience. The office coordinates the field study semesters offered through the Faculty of Science and provides information on internship opportunities to students who are in Science programs at McGill. Whether you decide to participate in a field study semester or apply classroom theory to practice, the [Science Internships & Field Studies Office](#) will offer you assistance in your decision.

Burnside Hall, Room 720
805 Sherbrooke Street West
Montreal QC H3A 0B9
Telephone: 514-398-1063; 514-398-8365
Email: ifso.science@mcgill.ca
Website: mcgill.ca/science/undergraduate/internships-field/internships

11.12.1 Internship Program: Industrial Practicum (IP) and Internship Year in Science (IYS)

The Internship Program is open to all Science undergraduate students, as well as qualified students in other undergraduate degrees or programs, including majors in Environment, Computer Science, Geography, Mathematics, and Psychology. Participating in an internship offers you the chance to add a practical element to your studies, to solidify your career goals, to gain some valuable experience, and to earn money. Internships may have a basis in research.

To be eligible to apply:

- You must be registered as a full time student before and after the IP or the IYS is completed.
- You must have completed at least 27 credits and have at least 12 credits remaining in your degree program.
- Your CGPA must be 2.7 or higher.
- International McGill students are eligible to apply to summer IP and IYS positions (unless otherwise indicated on the job posting). Restrictions apply; interested students should visit the Internships & Field Studies Office for details.

The program features the *Industrial Practicum* (4 months) and the *Internship Year in Science* (8, 12, 16 months).

Internship Program Designation

The Internship Program will also give you the opportunity to enhance your degree: if you are a student in the Faculty of Science and you complete two *Industrial Practica* (IP) or participate in an *Internship Year in Science* (IYS), the name of your program will change to include the Internship Program designation (e.g., Bachelor of Science – Computer Science - Internship Program).

For more information on IP and IYS, please see mcgill.ca/science/undergraduate/internships-field/internships.

11.12.2 Field Study Semester Programs

McGill's Field Study Semester programs (in Africa, Arctic, Barbados, and Panama) are research-based, as are many shorter field courses offered by the Departments of Biology, Earth & Planetary Sciences, and Geography. See mcgill.ca/science/undergraduate/programs/bsc-global/field-courses for more information about these programs.

11.12.3 B.Sc. Global Designation

The above internship and study abroad opportunities form part of a special B.Sc. Global designation awarded to eligible students at graduation; visit mcgill.ca/science/undergraduate/programs/bsc-global for more information.

11.13 Browse Academic Units & Programs

What is a Major Program?

A major is a versatile, comprehensive primary area of study. Most major programs require about two-thirds of your total credits. With the remaining credits, you can choose electives, or you may want to use those additional credits to take a minor, which can be chosen from a wide variety of areas both within and outside Science.

What is an Honours Program?

Honours programs typically invY

11.13.1.1 Bachelor of Science (B.Sc.) - Freshman Program (30 credits)

Students who need 97-120 credits to complete their degree requirements will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection.

Full details are available on the SOUSA website at <http://www.mcgill.ca/science/student/newstudents/u0>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses to satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program should be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <http://www.mcgill.ca/science/student/newstudents/u0/bscfreshman/specific>.
4. The maximum number of courses per term, 5.68 434ny75.475.80e se

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

Second calculus course, one of:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

First physics course, one of:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Second physics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to take elective courses may choose them from introductory courses offered by departments in the Faculties of Science or of Arts. A list of recommended courses is found at <http://www.mcgill.ca/science/student/newstudents/u0/bscfreshman/suggested-elective-courses>. Certain courses offered by other faculties may also be taken, but some restrictions apply. Consult the SOUSA website at <http://www.mcgill.ca/science/student/continuingstudents/bsc/outside/> for more information about taking courses from other faculties.

11.13.2 Anatomy and Cell Biology (ANAT)

11.13.2.1 Location

Strathcona Anatomy and Dentistry Building, Rooms M21-M31
 3640 University Street
 Montreal, Quebec H3A 0C7
 Telephone: 514-398-6350
 Website: mcgill.ca/anatomy

11.13.2.2 About Anatomy and Cell Biology

The Department of Anatomy and Cell Biology offers courses that deal with:

- cell biology;
- histology;
- embryology;
- neuroanatomy; and
- gross anatomy.

The **Honours** program is designed as the first phase in the training of career cell and molecular biologists. The **Major** and **Liberal** programs offer decreasing levels of specialization in Anatomy and Cell Biology but with a broader base in other biological sciences. These programs also form a sound background for graduate studies in Anatomy and Cell Biology, or for further professional training, including medical school and other health programs. A B.Sc. in Anatomy and Cell Biology provides an excellent preparation for technical and administrative positions in laboratories of universities, research institutions, hospitals, and pharmaceutical and biotechnological industries.

The Department is equipped to perform protein purification; recombinant DNA technology; micro-injection of molecules into single cells; cytochemical, immunocytochemical, and fluorescent analysis and electron microscopy; proteomics; and genomics. The Department has a well-equipped centre for electronimnd fluore

11.13.2.3 Anatomy and Cell Biology (ANAT) Faculty

Chair

Craig Mandato

Emeritus Professors

Gary C. Bennett; B.A., B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

John J.M. Bergeron; B.Sc.(McG.), D.Phil.(Oxf.)

James R. Brawer; B.Sc.(Tufts), Ph.D.(Harv.)

Louis Hermo; B.A.(Loyola), M.Sc., Ph.D.(McG.)

Sandra C. Miller; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Dennis G. Osmond; C.M., B.Sc., M.B., Ch.B., D.Sc.(Brist.), M.R.C.S., L.R.C.P., F.R.S.C.

Hershey Warshawsky; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Professors

Chantal Autexier; B.Sc.(C' dia), Ph.D.(McG.)

Samuel David; Ph.D.(Manit.) (*joint appt. with Neurology and Neurosurgery*)

Elaine Davis; B.Sc., M.Sc.(UWO), Ph.D.(McG.)

Timothy Kennedy; B.Sc.(McM.), M.Phil., Ph.D.(Col.) (*joint appt. with Neurology and Neurosurgery*)

Nathalie Lamarche-Vane; B.Sc., Ph.D.(Montr.)

Marc D. McKee; B.Sc., M.Sc., Ph.D.(McG.) (*joint appt. with Dentistry*)

Peter McPherson; B.Sc.(Manit.), Ph.D.(Iowa) (*joint appt. with Neurology and Neurosurgery*)

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 and Health Sciences*)

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*)

Assistant Professors

Mina Zeroual; M.D.(Hassan II Casablanca)

Natalie Zeytuni; B.Sc., M.Sc., Ph.D.(Ben-Gurion)

Associate Members

Rosetta Antonacci (Ingram School of Nursing)

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 and Health Sciences*)

Allen Ehrlicher (*Bioengineering*)

Alyson Fournier (*Neurology and Neurosurgery*)

Lisbet Haglund (*Surgery*)

Janet Henderson (*Medicine and Health Sciences*)

Loydie A. Jerome-Majewska (*Pediatrics and Human Genetics*)

Mari T. Kaartinen (*Dentistry*)

Svetlana Komarova (*Dentistry*)

David Labbé (*Surgery and Urology*)

Stephane Laporte (*Medicine and Health Sciences*)

Andréa Leblanc (*Neurology and Neurosurgery*)

Stéphanie Lehoux (*Medicine and Health Sciences*)

Heidi McBride (*Montreal Neurological Institute*)

Peter Metrakos (*Surgery*)

Makato Nagano (*Obstetrics and Gynecology*)

Christian Rocheleau (*Endocrinology and Metabolism*)

Edward S. Ruthazer (*Neurology and Neurosurgery*)

Peter Siegel (*Medicine and Health Sciences, and Biochemistry*)

Charles E. Smith; D.D.S., Ph.D.(McG.)

Thomas Stroh (*Neurology and Neurosurgery*)

Jason Tanny (*Pharmacology and Therapeutics*)

Adjunct Professors

Gregor Andelfinger; M.D.(Ulm)

Philippe Campeau; M.D.(Laval)

Michel Cayouette; Ph.D.(Laval)

Frédéric Charron; B.Sc.(Montr.), Ph.D.(McG.)

Jean-François Côté; Ph.D.(McG.)

Daniel Cyr; B.Sc., M.Sc.(C'dia), Ph.D.(Manit.)

Jacques Drouin; B.Sc., D.Sc.(Laval)

Jennifer Estall; Ph.D.(Tor.)

Patrick Freud; B.Sc., D.C.(Parker)

Michael Greenwood; B.Sc., M.Sc.(C'dia), Ph.D.(McG.)

Adjunct Professors

David Hipfner; B.Sc., Ph.D.(Qu.)

Artur Kania; Ph.D.(Baylor)

Justin Kollman; Ph.D.(Calif.-San Diego)

Stephane Lefrancois; B.Sc., Ph.D.(McG.)

Alexei Pshezhetsky; Ph.D.(Moscow St.)

Isabelle Rouiller; Ph.D.(Herts.)

Michael Sacher; Ph.D.(McG.)

Elitza Tocheva; B.Sc., Ph.D.(Br. Col.)

Javier Vargas; Ph.D. (UCM, Spain)

11.13.2.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Anatomy and Cell Biology (48 credits)

Students may complete this program with a minimum of 47 credits or a maximum of 48 credits depending on their choice of complementary courses.

Required Courses (32 credits)

Note: ANAT 261 must be taken in U1.

* Students who have taken the equivalent of CHEM 212 and/or MATH 203 in CEGEP (as defined at <http://www.mcgill.ca/students/courses/plan/transfer/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANMolecular MeologyMo3)	(3)	Introductory Molecular and Cell Biology

One of the following statistics courses:

BIOL 373	(3)	Biometry
MATH 203*	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

Complementary Courses (24 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

12 credits of advanced anatomy courses (AAC) selected from:

ANAT 314	(3)	Human Musculoskeletal Anatomy
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 514	(3)	Advanced Human Anatomy Laboratory
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
NEUR 310	(3)	Cellular Neurobiology

12 credits of biologically oriented courses (BOC) selected from:

ANAT 314	(3)	Human Musculoskeletal Anatomy
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Immunochemistry
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer

BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BIOT 505	(3)	Selected Topics in Biotechnology
COogy	(3)	Computer Programming for Life Sciences

PHC 209	(3)	Translational Immunology
PHC 210	(3)	Blood-Brain Barrier in Health and Disease
PHC 211	(3)	Physiology of Blood
PHC 212	(3)	Artificial Internal Organs
PHC 213	(3)	Artificial Cells
PHC 214	(3)	Cellular and Molecular Physiology
PHC 215	(3)	Topics in Systems Neuroscience
PSY 216	(3)	Neurochemistry
PSY 217	(3)	Advances: Neurobiology of Mental Disorders

11.1 Bachelor of Science (B.Sc.) - Honours Anatomy and Cell Biology (73 credits)

Students must register at the Major level in U1 and, if accepted, may enter the Honours program at the beginning of U2. To enter the program, the student must have a CGPA of at least 3.20 at the end of U1. For promotion to the U3 year of the Honours program, or for entry into the program at this level, the student must have a CGPA of at least 3.20 at the end of their U2 year. It is expected that at the beginning of the third year, the students who wish to continue in the Honours program will be those who feel that they are seriously interested in a career in Cell Biology. The Honours degree will be recommended after successful completion of the program with a CGPA of at least 3.20.

Required Courses (52 credits)

Note: CHEM 261 must be taken in U1.

* Students who have taken the equivalent of CHEM 212, CHEM 222, and/or MATH 203 in CEGEP (as defined at <http://www.mcgill.ca/transferecredit/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 202	(3)	Molecular Mechanisms of Cell Function
ANAT 204	(3)	Systemic Human Anatomy
ANAT 251	(4)	Introduction to Dynamic Histology
ANAT 252	(3)	Introductory Molecular and Cell Biology
ANAT 332	(9)	Honours Research Project
BIOC 200	(3)	Molecular Biology
BIOC 202	(3)	Basic Genetics
BIOC 201	(4)	Cell and Molecular Laboratory
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHC 209	(3)	Mammalian Physiology 1
PHC 210	(3)	Mammalian Physiology 2

One of the following statistics courses:

BIOC 373	(3)	Biometry
MATH 203*	(3)	Principles of Statistics 1
PSY 204	(3)	Introduction to Psychological Statistics

Complementary Courses (21 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

18 credits of advanced anatomy courses (AAC) selected from:

* Note: Students may take either ANAT 321 OR ANAT 323.

ANAT 314	(3)	Human Musculoskeletal Anatomy
ANAT 321**	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 323**	(3)	Clinical Neuroanatomy
(AN)Tj1 0 0 1 8103167		Cellular Trafficking

BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BIOT 505	(3)	Selected Topics in Biotechnology
COMP 204	(3)	Computer Programming for Life Sciences
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
		Advanced Applied CardioApplied Cpl(Adv)TjCardio

PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.3 Atmospheric and Oceanic Sciences (ATOC)

11.13.3.1 Location

Burnside Hall, Room 945
 805 Sherbrooke Street West
 Montreal QC H3A 0B9
 Telephone: 514-398-3764
 Fax: 514-398-6115
 Email: info.aos@mcgill.ca
 Website: mcgill.ca/meteo

11.13.3.2 About Atmospheric and Oceanic Sciences

The Department of Atmospheric and Oceanic Sciences offers, at the undergraduate level, a broad range of courses and degree programs in atmospheric science (meteorology). At the postgraduate level, programs of study are offered in physical oceanography, air-sea interaction, and climate research as well as in different branches of atmospheric science. The study of atmospheric science is based largely on physics and applied mathematics. All required courses except those at the introductory level generally have prerequisites or corequisites in physics, mathematics, and atmospheric science. One of the goals of the discipline is to develop the understanding necessary to improve our ability to predict the weather, but atmospheric science is more than weather forecasting.

Another important area of study focuses on the changes in global climate caused by the changing chemical composition of the atmosphere. The approach to the study of climate change is quantitative in the Department of Atmospheric and Oceanic Sciences. Like other parts of physics, atmospheric science attempts to create theoretical models of its complex processes as a means of analyzing the motion and composition of the air, its thermodynamic behaviour, and its interaction with radiation and with the solid or liquid surface beneath it.

From one viewpoint, the atmosphere may be studied as a large volume of gas by the methods of fluid mechanics: winds, circulation patterns, turbulence, and energy and momentum exchanges are the ideas employed in this approach. Alternatively, the atmosphere may be studied from the point of view of its detailed physics: how water condenses in the air; how cloud droplets make rain; how sunlight warms the ground and the ground warms the air above it by radiation and convection; and how the atmosphere and ocean interact to shape the weather and climate. A comprehensive understanding requires both viewpoints, and these are reflected in the curriculum.

The Department of Atmospheric and Oceanic Sciences offers four main programs in Atmospheric Science:

- **Honours**
- **Major**
- **Minor**
- **Joint Major** in Atmospheric Science and Physics

The **Honours** program is meant for students with high standing. It is based on courses similar to those in the Major program, but provides opportunities to perform research and to take advanced courses. The **Major** program, although somewhat less intensive, satisfies the requirements for a professional career as a meteorologist, and like the Honours program equips the student to undertake postgraduate study in meteorology, atmospheric science, and related sciences (physical oceanography) at any of the leading universities. The Department also offers a special one-year Diploma program to B.Sc. or B.Eng. graduates.

An undergraduate degree in Atmospheric Science is an excellent background for professional careers in government service or private industry and/or graduate study in the physical sciences. Environment and Climate Change Canada (and the Meteorological Service of Canada in particular) has traditionally been a significant employer of graduating students at all levels, but provincial governments, private forecasting companies, environmental consulting and

11.13.3.3 Atmospheric and Oceanic Sciences Faculty

Oceans,

3 credits selected from:

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
PHYS 257	(3)	Experimental Methods 1

3 credits selected from:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

3 credits selected from:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

12-16 credits selected from (at least 6 of which must be ATOC):

ATOC 309	(3)	Weather Radars and Satellites
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 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
MATH 203	(3)	Principles of Statistics 1
MATH 319	(3)	Introduction to Partial Differential Equations
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism

11.13.3.6 Bachelor of Science (B.Sc.) - Major Atmospheric Science (62 credits)

Required Courses (24 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra

MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (38 credits)

36-38 credits

* Students cannot receive credit for both MATH 203 and MATH 324.

** Students cannot receive credit for both PHYS 340 and PHYS 350.

*** Students cannot receive credit for both PHYS 342 and PHYS 352.

Weather Analysis and Forecasting Stream (17 credits)

(16-17 credits)

13 credits from:

ATOC 309	(3)	Weather Radars and Satellites
ATOC 521	(3)	Cloud Physics
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion

3-4 credits selected from:

ATOC 404+	(3)	Climate Physics
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids
PHYS 512	(3)	Computational Physics with Applications

+ Students cannot receive credit for both ATOC 404 and PHYS 404.

++ Students cannot receive credit for both PHYS 432 or MATH 555.

Climate Science Stream (15 credits)

6 credits from:

ATOC 404+	(3)	Climate Physics
ATOC 531	(3)	Dynamics of Current Climates
PHYS 404+	(3)	Climate Physics

+ Students cannot receive credit for both ATOC 404 and PHYS 404.

9 credits (at least 6 of which must be ATOC) selected from:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability

ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics

ATOC 568	(3)	Ocean Physics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
EPSC 513	(3)	Climate and the Carbon Cycle
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids
PHYS 512	(3)	Computational Physics with Applications

+ Students cannot receive credit for ATOC 404 and PHYS 404.

++ Students cannot receive credit for both PHYS 432 or MATH 555.

11.13.3.7 Bachelor of Science (B.Sc.) - Major Atmospheric Science and Physics (69 credits)

This Major provides a solid basis for postgraduate study in meteorology, atmospheric physics, or related fields, as well as the necessary preparation for embarking on a professional career as a meteorologist directly after the B.Sc.

The program is jointly administered by the Department of Physics and the Department of Atmospheric and Oceanic Sciences. Students should consult undergraduate advisers in both departments.

Required Courses (57 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 346	(3)	Majors Quantum Physics

Complementary Course (12 credits)

At least 6 of the 12 complementary credits must come from ATOC courses.

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
ATOC 404*	(3)	Climate Physics
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 404*	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
	(3)	Majors Laboratory in Modern Physics

ATOC 309	(3)	Weather Radars and Satellites
ATOC 404+	(3)	Climate Physics
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
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
	(3)	Synoptic Meteorology 1

Biochemistry is the application of chemistry to the study of biological processes at the cellular and molecular level. It emerged as a distinct discipline around the beginning of the 20th century when scientists combined chemistry, physiology, and biology to investigate the chemistry of living systems.

- *The study of life in its chemical processes:* Biochemistry is both a life science and a chemical science—it explores the chemistry of living organisms and the molecular basis for the changes occurring in living cells. It uses the methods of chemistry, physics, molecular biology, and immunology to study the structure and behaviour of the complex molecules found in biological material and the ways these molecules interact to form cells, tissues, and whole organisms. Biochemistry graduates are interested, for example, in mechanisms of brain function, cellular multiplication and differentiation, communication within and between cells and organs, and the chemical bases of inheritance and disease. The biochemistry student seeks to determine how specific molecules such as proteins, nucleic acids, lipids, vitamins, and hormones function in such processes. Particular emphasis is placed on regulation of chemical reactions in living cells.
- *An essential science:* Biochemistry has become the foundation for understanding all biological processes. It has provided explanations for the causes of many diseases in humans, animals, and plants. It can frequently suggest ways by which such diseases may be treated or cured.
- *A practical science:* Because biochemistry seeks to unravel the complex chemical reactions that occur in a wide variety of life forms, it provides the basis for practical advances in medicine, veterinary medicine, agriculture, and biotechnology. It underlies and includes such exciting new fields as molecular genetics and bioengineering. The knowledge and methods developed by biochemistry scientists are applied in all fields of medicine, in agriculture, and in many chemical- and health-related industries. Biochemistry is also unique in providing teaching and research opportunities in both protein structure/function and genetic engineering, the two basic components of the rapidly expanding field of biotechnology.
- *A varied science:* As the broadest of the basic sciences, biochemistry includes many subspecialties such as neurochemistry, bioorganic chemistry, clinical biochemistry, physical biochemistry, molecular genetics, biochemical pharmacology, and immunochemistry. Recent advances in these areas have created links among technology, chemical engineering, and biochemistry.

The Department of Biochemistry offers three undergraduate programs:

- **Liberal Program**

This is the most flexible of the departmental programs offered, providing students with a useful concentration in biochemistry while allowing them to pursue a minor in another speciality or to broaden their education in the sciences.

- **Major**

The Major program becomes more specialized in biochemistry during the final two years. This program requires skills and insight from all areas of chemistry, and from other areas such as biology, physiology, microbiology and immunology, statistics, and pharmacology. For students aiming for a professional career in the biological sciences or in medicine, these programs can lead to postgraduate studies and research careers in hospital, university, or industrial laboratories.

- **Honours**

The Honours program in Biochemistry combines the substantial background given by the Major program with a challenging opportunity to carry out laboratory research projects in the U3 year. These courses provide students with research experience under the supervision of a professor in the Department. Honours students intending to pursue an M.Sc. in Biochemistry may be interested in the B.Sc./M.Sc. track, which offers a streamlined path to a graduate degree.

Emeritus Professors

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.(r1 0 0 1 78.921 641.96 Tm(ofessors)Tj/F1 j/F2 8.1 Tf1 0 0 1 254.552 662us PrT

Associate Members

Marc Fabian (*Dept. of Oncology*)

Robert S. Kiss (*Dept. of Medicine*)

Gergely Lukacs (*Dept. of Physiology*)

Luke McCaffrey (*Dept. of Oncology*)

Joaquin Ortega (*Dept. of Anatomy & Cell Biology*)

Janusz Rak (*Dept. of Medicine*)

Stéphane Richard (*Depts. of Medicine, and Oncology*)

Reza Salavati (*Inst. of Parasitology*)

Erwin Schurr (*Ctr. for Host Resistance, MGH*)

Peter Siegel (*Rosalind and Morris Goodman Cancer Research Centre, 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 (*Rosalind and Morris Goodman Cancer Research Centre, Dept. of Medicine*)

Natalie Zeytuni; B.Sc., M.Sc., Ph.D.(Ben-Gurion University, Israel)

Adjunct Professors

Jacques Drouin; B.Sc., D.Sc.(Laval) (*IRCM*)

Enrico Purisima; B.Sc.(Ateneo de Manila), M.Sc., Ph.D.(Cornell) (*NRC/BRI*)

Julie St-Pierre; B.Sc., M.Sc.(Laval), Ph.D.(Trin. Coll., Cambridge) (*Ott.*)

11.13.4.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biochemistry (47 credits)

U1 Required Courses (23 credits)

* Students with CEGEP-level credit for CHEM 212 and/or CHEM 222 should replace these courses with elective courses.

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOC 220	(3)	Laboratory Methods in Biochemistry and Molecular Biology 1
BIOL 200	(3)	Molecular Biology

BIOL 202, IsreniochquilecU2 has part 0 0 1 265.5 321.313 552(oula 6its)Tj sioula ionoula AnE

BIOL 205	(3)	Functional Biology of Plants and Animals
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (20 credits)

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 320	(3)	Laboratory Methods in Biochemistry and Molecular Biology 2
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362	(2)	Advanced Organic Chemistry Laboratory

U2 Complementary Courses (3 credits)

3 credits selected from:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
CHEM 267	(3)	Introductory Chemical Analysis
COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
PSYC 204	(3)	Introduction to Psychological Statistics

U3 Required Courses (6 credits)

BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

U3 Complementary Courses (6 credits)

3-6 credits selected from:

BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 470	(3)	Lipids and Lipoproteins in Disease
BIOC 491	(6)	Independent Research
BIOC 503	(3)	Immunochemistry
PSYT 455	(3)	Neurochemistry

The remainder, if any, to be selected from the following list:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology

BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 482	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 532	(3)	Structural Organic Chemistry
		Physical Or

CHEM 267	(3)	Introductory Chemical Analysis
CHEM 482	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 532	(3)	Structural Organic Chemistry
CHEM 552	(3)	Physical Organic Chemistry

The study of biology also has vast practical applications. The knowledge, methods, and concepts developed through research in the various fields of biology are applied extensively

Students planning to take one of the joint majors or the Quantitative Biology Major or Honours options should consult:

Emeritus Professors

Barid B. Mukherjee; B.Sc., M.Sc.(Calc.), M.Sc.(Brigham Young), Ph.D.(Utah)

Gerald S. Pollack; M.A., Ph.D.(Princ.)

Ronald Poole; B.Sc., Ph.D.(Birm.)

Derek Roff; B.Sc.(Syd.), Ph.D.(Br. Col.), F.R.S.C.

Rolf Sattler; B.Sc.(Tübingen), Ph.D.(Munich) F.R.S.C.

Professors

Ehab Abouheif; B.Sc., M.Sc.(C'dia), Ph.D.(Duke) (*James McGill Professor*)

Graham A.C. Bell; B.A., D.Phil.(Oxf.), F.R.S.C. (*James McGill Professor*)

Lauren Chapman; B.Sc.(Alta.), Ph.D.(McG.) F.R.S.C. (*Distinguished James McGill Professor*)

Melania Cristescu; B.Sc., M.Sc.(Ovidius Univ. Constanta, Romania), Ph.D.(Guelph) (*Canada Research Chair in Ecological Genomics of Aquatic Invasions*)

Gregor Fussmann; Dipl.(Free Univ., Berlin), Ph.D.(Max Planck) (*Strathcona Chair in Zoology*)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll.) (*Liber Ero Chair in Biodiversity Conservation*)

Frédéric Guichard; B.Sc.(Montr.), Ph.D.(Laval)

Siegfried Hekimi; M.Sc., Ph.D.(Geneva), F.R.S.C. (*Strathcona Chair in Zoology; Catherine Louise Campbell Chair in Developmental Biology*)

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Redpath Museum*) (*Canada Research Chair in Eco-Evolutionary Dynamics*)

Paul F. Lasko; A.B.(Harv.), Ph.D.(MIT), F.R.S.C. (*James McGill Professor*)

Laura Nilson; B.A.(Colgate), Ph.D.(Yale) (*Associate Dean (Graduate Education) Faculty of Science*)

Catherine Potvin; B.Sc., M.Sc.(Montr.), Ph.D.(Duke), F.R.S.C. (*Canada Research Chair in Climate Change Mitigation & Tropical Forests*)

Neil M. Price; B.Sc.(New Br.), Ph.D.(Br. Col.)

Richard Roy; B.Sc.(Bishop's), Ph.D.(Laval) (*Molson Chair of Genetics*)

Daniel J. Schoen; B.Sc., M.Sc.(Mich.), Ph.D.(Calif., Berk.) (*Macdonald Professor of Botany*)

Associate Professors

Gary Brouhard; B.S.E., M.S.E., Ph.D.(Mich.)

Thomas E. Bureau; B.Sc.(Calif.), Ph.D.(Texas)

David Dankort; B.Sc., Ph.D.(McM.)

Joseph A. Dent; B.Sc.(Mich.), Ph.D.(Colo.)

Irene Gregory-Eaves; B.Sc.(Vic., BC), M.Sc., Ph.D.(Qu.) (*Canada Research Chair in Fresh Water Ecology & Global Change*)

Paul Harrison; B.Sc.(NUI), Ph.D.(Lond.)

Michael Hendricks; B.A.(Bowdoin), Ph.D.(Sing.) (*Canada Research Chair in Neurobion*)

Complementary Courses (10 credits)

Students complete a minimum of 9 or a maximum of 10 complementary course credits depending on their choice of complementary courses.

To include:

CHEM 212* (4) Introductory Organic Chemistry 1

Plus an additional two courses from the Biology department's course offerings, at the 300 level or above.

* Students who have already taken CHEM 212 or its equivalent will choose another appropriate course, to be approved by the Biology Adviser.

11.13.5.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biology (47 credits)

The Liberal Program - Core Science Component Biology is a flexible program focusing on the fundamentals of biology. Topics include a range of biological nTj1 0 0 1 2

Required Courses (31 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology

The program has two options: an ecology and e

Field Courses - 3 credits from the following list or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 432	(3)	Limnology

6 credits chosen from the following list of courses at the 400 level or above:

* Students choose either both BIOL 596 and BIOL 597, or BIOL 598.

BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 435	(3)	Natural Selection
BIOL 465	(3)	Conservation Biology
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 510	(3)	Advances in Community Ecology
BIOL 515	(3)	Advances in Aquatic Ecology
BIOL 540	(3)	Ecology of Species Invasions
BIOL 594	(3)	Advanced Evolutionary Ecology
BIOL 596*	(1)	Advanced Experimental Design
BIOL 597*	(2)	Advanced Biostatistics
BIOL 598*	(3)	Advanced Design and Statistics

Stream 2: Physical Biology (21 credits)

BIOL 319	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications
PHYS 346	(3)	Majors Quantum Physics

300-level complementary courses: 6 credits from the following:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 309	(3)	Mathematical Models in Biology
BIOL 313	(3)	Eukaryotic Cell Biology

500-level complementary courses: 6 credits from the following:

BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 530	(3)	Advances in Neuroethology
BIOL 551	(3)	Principles of Cellular Control
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology

Complementary Courses

Quantitative Biology - Theoretical Ecology and Evolutionary Biology, and Physical Biology streams

9 credits from the following:

Recommendations for either Theoretical Ecology and Evolutionary Biology or Physical Biology streams

BIOL 466	(3)	Independent Research Project 1
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 350*	(3)	Numerical Computing

MATH 340	(3)	Discrete Mathematics
MATH 423	(3)	Applied Regression
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHYS 329	(3)	Statistical Physics with Biophysical Applications

11.13.5.10 Bachelor of Science (B.Sc.) - Major Biology and Mathematics (76 credits)

This program is built on a selection of mathematics and biology courses that recognize mathematical biology as a field of research, with three streams within biology: Ecology and Evolutionary Ecology, Molecular Evolution, and Neurosciences.

Advising notes for U0 students:

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the program.

This program is recommended for U1 students achieving a CGPA of 3.2 or better, and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (37 credits)

Bio-Physical Sciences Core

28 credits

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming
MATH 222*	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra
MATH 247***	(3)	Honours Applied Linear Algebra

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Note: Students selecting a BIOL course count this toward their 21 credits of BIOL, NEUR, PHGY, PSYC courses while students selecting a MATH course count this toward their 18 credits of MATH courses.

3-6 credits from the following Math or Biology research courses:

BIOL 466	(3)	Independent Research Project 1
BIOL 467	(3)	Independent Research Project 2
BIOL 468	(6)	Independent Research Project 3
MATH 410	(3)	Majors Project

Of the remaining complementary courses, at least 6 credits must be at the 400 level or above.

Math Courses

15 credits (if MATH 410 was selected as a research course) or 18 credits of MATH courses chosen from Stream 1 or 2 and from "Remaining Math Courses" as follows:

Stream 1: Theory

12 credits from the following courses:

* Students may take either MATH 317 or MATH 327.

MATH 314	(3)	Advanced Calculus
MATH 317*	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327*	(3)	Matrix Numerical Analysis

Stream 2: Statistics

9 credits from the following:

MATH 324	(3)	Statistics
MATH 423	(3)	Applied Regression
MATH 447	(3)	Introduction to Stochastic Processes

Remaining Math Courses

Remaining 3-9 credits of MATH courses may be chosen from any of the two preceding sequences and/or from the following list:

MATH 204	(3)	Principles of Statistics 2
MATH 340	(3)	Discrete Mathematics
MATH 437	(3)	Mathematical Methods in Biology
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

BIOL, NEUR, PHGY, PHYS, PSYC Courses

18 credits (if 3 credit BIOL course was selected as a research course) or 15 credits (if 6 credit BIOL research course was selected) of BIOL, NEUR, PHGY, PHYS, PSYC courses including one of three streams.

Note: Some courses in the streams may have prerequisites.

Ecology and Evolutionary Ecology Stream

At least 15 credits selected as follows:

3 credits of:

BIOL 206	(3)	Methods in Biology
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3 credits from the following field courses or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1	(1.5)	Applied Tropical Ecology
BIOL 334D2	(1.5)	Applied Tropical Ecology
BIOL 432	(3)	Limnology
BIOL 573	(3)	Vertebrate Palaeontology Field Course

At least 9 credits chosen from the following list

BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 324	(3)	Ecological Genetics
BIOL 434	(3)	Theoretical Ecology
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 569	(3)	Developmental Evolution
BIOL 594	(3)	Advanced Evolutionary Ecology

Molecular Evolution Stream

At least 15 credits selected as follows:

3 credits

BIOL 202	(3)	Basic Genetics
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At least 12 credits selected from the following list:

BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 569	(3)	Developmental Evolution
BIOL 592	(3)	Integrated Bioinformatics

Neurosciences Stream

At least 15 credits selected as follows:

3 credits from:

BIOL 306 (3) Neural Basis of Behaviour

At least 12 credits selected from:

BIOL 320 (3) Evolution of Brain and Behaviour
BIOL 389 (3) Laboratory in Neurobiology
BIOL 530 (3) Advances in Neuroethology
BIOL 580 (3) Genetic Approaches to Neural Systems
NEUR 310 (3) Cellular Neurobiology
NEUR 507 (3) Topics in Radionuclide Imaging
NEUR 570 (3) Human Brain Imaging
PHGY 314 (3) Integrative Neuroscience
PHGY 425 (3) Analyzing Physiological Systems
PHGY 552 (3) Cellular and Molecular Physiology
PSYC 427 (3) Sensorimotor Neuroscience
PSYT 455 (3) Neurochemistry
PSYT 502 (3) Brain Evolution and Psychiatry

Remaining BIOL, NEUR, PHGY, PSYC

For the remaining BIOL, NEUR, PHGY, PSYC complementary course credits, if any, students top up their credits to the necessary 18-21 credits with any course listed in the above three streams. Other relevant courses may be substituted with the approval of the Program Adviser.

11.13.5.1193 Bachelor of Science (BSc) Honours Biology (72 credits)

Complementary Courses (36-37 credits)

Core 12-13 credits:

3 or 4 credits selected from CHEM block:

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1

* If a student has already taken CHEM 212 or its equivalent, the credits can be made up with CHEM 204, CHEM 222, or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

9 credits (3 credits from each of Block A, Block B and Block C):

Block A- Ecology and Evolution:

BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics

Block B- Molecular and Cellular:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 313	(3)	Eukaryotic Cell Biology

Block C-Neuro/Behaviour:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology

Honours Block (9-12 credits)

BIOL 479D1	(4.5)	Honours Research Project 1
BIOL 479D2	(4.5)	Honours Research Project 1

OR

BIOL 480D1	(6)	Honours Research Project 2
BIOL 480D2	(6)	Honours Research Project 2

Other (12-15 credits)

15 credits of Biology courses at the 300-500 levels if taking BIOL 479D1/D2, or 12 credits if taking BIOL 480D1/D2. With permission of the Biology Adviser, up to 6 credits may be taken from other science department courses (300-500 levels). Up to 3 credits of previous independent research courses may be included. Must include 6 credits of 400-500 levels.

11.13.5.12 Bachelor of Science (B.Sc.) - Honours Biology - Quantitative Biology (79 credits)

79 credits

Interdisciplinary research that draws from the natural and physical sciences is an important aspect of modern biology. The Quantitative Biology (QB) Honours option is designed for students with a deep interest in biology who wish to gain a strong grounding in physical sciences and their application to biological

Students may complete this program with a minimum of 74 credits or a maximum of 79 credits depending on whether MATH 222 and CHEM 212 are completed.

Advising notes for U0 students

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the Quantitative Biology option.

This program is recommended for U1 students achieving a CGPA of 3.20 or better; and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (49 credits)

Bio-Physical Sciences Core (31 credits)

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming
MATH 222***	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 315+	(3)	Ordinary Differential Equations
MATH 323++	(3)	Probability
MATH 324+++	(3)	Statistics
MATH 325+	(3)	Honours Ordinary Differential Equations
MATH 356++	(3)	Honours Probability
MATH 357+++	(3)	Honours Statistics

* Students who have taken the equivalent of CHEM 212 or MATH 222 can make up the credits with complementary 3 or 4 credit courses in consultation with a stream adviser.

** Students who have sufficient knowledge of programming should take COMP 250 Introduction to Computer Science rather than COMP 202.

*** Students take MATH 223 or MATH 247.

+ Students take MATH 315 or MATH 325.

++ Students take MATH 323 or MATH 356.

+++ Students take MATH 324 or MATH 357.

Note: 6 credits of either MATH or PHYS courses to be taken at the honours level. Honours equivalents of core Math and Physics courses are listed. All 500-level Math courses are considered as honours courses and can be applied to the 6 credit requirement.

Biology (6 credits)

BIOL 202	(3)	Basic Genetics
BIOL 215	(3)	Introduction to Ecology and Evolution

Research Component (6 credits)

BIOL 468	(6)	Independent Research Project 3
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Physics (6 credits)

6 credits from:

PHYS 230*	(3)	Dynamics of Simple Systems
PHYS 232**	(3)	Heat and Waves

PHYS 251*	(3)	Honours Classical Mechanics 1
PHYS 253**	(3)	Thermal Physics

* Students take PHYS 230 or PHYS 251.

** Students take PHYS 232 or PHYS 253.

Course Requirements for Quantitative Biology Streams

21 credits from one of the following two streams:

Stream 1: Theoretical Ecology and Evolutionary Biology (21 credits)

Biology

12 credits from the following:

BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics

Field Courses

3 credits from the following list or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 432	(3)	Limnology

6 credits chosen from the following list of courses at the 400 level or above:

* Students choose either both BIOL 596 and BIOL 597, or BIOL 598.

BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 435	(3)	Natural Selection
BIOL 465	(3)	Conservation Biology
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 510	(3)	Advances in Community Ecology
BIOL 515	(3)	Advances in Aquatic Ecology
BIOL 540	(3)	Ecology of Species Invasions
BIOL 594	(3)	Advanced Evolutionary Ecology
BIOL 596*	(1)	Advanced Experimental Design
BIOL 597*	(2)	Advanced Biostatistics
BIOL 598*	(3)	Advanced Design and Statistics

Stream 2: Physical Biology

BIOL 319*	(3)	Introduction to Biophysics
PHYS 319*	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications
PHYS 346	(0)	Majors Quantum Physics

* Students choose either BIOL 319 or PHYS 319

300-level complementary courses

6 credits from the following:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 309	(3)	Mathematical Models in Biology
BIOL 313	(3)	Eukaryotic Cell Biology

500-level complementary courses

6 credits from the following:

BIOL 518	(3)	Advanced Topics in Cell Biology Gene Activity in Development
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Recommendations for Physical Biology stream

BIEN 310	(3)	Introduction to Biomolecular Engineering
BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
		T

1205 Dr. Penfield Avenue
Montreal QC H3A 1B1
Telephone: 514-398-4109
Email: nancy.nelson@mcgill.ca
Website: biology.mcgill.ca/undergrad/minorprog_biotech.html

11.13.6.2 About Biotechnology

Biotechnology, the science of understanding, selecting, and promoting useful or

MIMM 413	(3)	Parasitology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

Molecular Biology (Biology)

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 551	(3)	Principles of Cellular Control

Molecular Biology (Biochemistry)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
PSYT 455	(3)	Neurochemistry

Physiology

EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHGY 517	(3)	Artificial Internal Organs
PHGY 518	(3)	Artificial Cells

Pollution

CHEE 593	(3)	Industrial Water Pollution Control
CIVE 225	(4)	Environmental Engineering
CIVE 430	(3)	Water Treatment and Pollution Control
CIVE 557	(3)	Microbiology for Environmental Engineering

11.13.6.6 Biotechnology (BIOT) Related Programs

11.13.6.6.1 Program for Students in the Faculty of Engineering

See [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > Minor Programs > section 6.12.10.5: Bachelor of Engineering \(B.Eng.\) - Minor Biotechnology \(for Engineering Students\) \(24 credits\)](#) for details.

11.13.7 Chemistry (CHEM)

11.13.7.1 Location

Otto Maass Chemistry Building
801 Sherbrooke Street West

Montreal QC H3A 0B8
Departmental Office: Room 322
Telephone: 514-398-6999
Website: mcgill.ca/chemistry

Student Advisory Office: Pulp & Paper Building, Room 118A
Website: mcgill.ca/chemistry/current-undergraduate-students/advising

11.13.7.2 Office for Science and Society

The Office for Science and Society is dedicated to the promotion of critical thinking and the presentation of practical scientific information to the public, educators, and students in an accurate and responsible fashion. The Office answers queries from the public as well as from the media, with a view toward establishing scientific accuracy. The Office also offers a variety of educational and interesting presentations on scientific topics and its members contribute to a number of courses under the umbrella of “The World of Chemistry”.

Director

Joseph A. Schwarcz; B.Sc., Ph.D.(McG.)

Members

Ariel Fenster; L.Sc., D.E.A.(Paris), Ph.D.(McG.)

David N. Harpp; A.B.(Middlebury), M.A.(Wesl.), Ph.D.(N. Carolina), F.C.I.C. (*William C. Macdonald Professor of Chemistry*)

11.13.7.3 About Chemistry

Chemistry is both a pure science, offering a challenging intellectual pursuit, and an applied science whose technology is of fundamental importance to the economy and society. Modern chemists seek an understanding of the structure and properties of atoms and molecules to predict and interpret the properties and transformations of matter and the energy changes that accompany those transformations. Many of the concepts of physics and mathematics are basic to chemistry, while chemistry is of fundamental importance to many other disciplines, such as the biological and medical sciences, geology, metallurgy, etc.

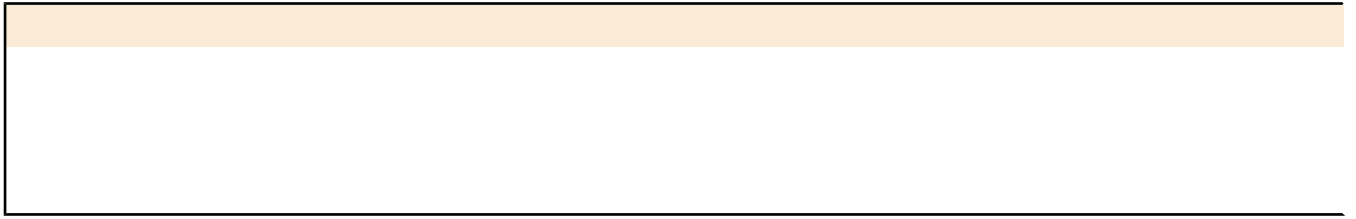
A degree in chemistry leads to a wide variety of professional vocations. The large science-based industries (petroleum refining, plastics, pharmaceuticals, etc.) all employ chemists in research, development, and quality control. Many federal and provincial departments and agencies employ chemists in research and testing laboratories. Such positions are expected to increase with the currently growing concern for the environment and for consumer protection. A background in chemistry is also useful as a basis for advanced study in other related fields, such as medicine and the biological sciences. For a business career, a B.Sc. in Chemistry can profitably be combined with a master's degree in Business Administration, or a study of law for work as a patent lawyer or forensic scientist.

Chemistry courses at the university level are traditionally divided into four areas of specialization:

1. organic chemistry, dealing with the compounds of carbon;
2. inorganic chemistry, concerned with the chemistry and compounds of elements other than carbon;
3. analytical chemistry, which deals with the identification of substances and the quantitative measurement of their compositions; and
4. physical chemistry, which treats the physical laws, kinetics, and energetics governing chemical reactions, behaviour of materials, and molecular structure.

Naturally, there is a great deal of overlap between these different areas, and the boundaries are becoming increasingly blurred. After a general course at the introductory level, courses in organic, inorganic, analytical, and physical chemistry are offered throughout the university years. Since chemistry is an experimental science, laboratory classes accompany most undergraduate courses. In addition, courses are offered in polymer, theoretical, green, nano, and biological chemistry to upper-year undergraduates.

There are two main programs in the Department of Chemistry: Honours and Major.



Assistant Professors

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.)Mt.

CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 314	(3)	Fluid Mechanics
CHEE 315	(3)	Heat and Mass Transfer
CHEE 351	(3)	Separation Processes

Complementary Courses (6 credits)

6 credits selected from any undergraduate courses offered by Chemical Engineering, excluding the following courses: CHEE 363, CHEE 456, CHEE 457, CHEE 494, CHEE 495 and CHEE 496.

11.13.7.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - General (49 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the

MATH 317 (3) Numerical Analysis

3 credits, one of:

ATOC 315 (3) Thermodynamics and Convection

Chemometrics: F03cs7 Tm((3))Tj1 0 0 1 fE46m(ChemometrTj1 0 0 1 165.864 725.56 Tm(Chemometr1 0 0 1 70.52 67

Complementary Course (6 credits)

6 credits from:

BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 365	(2)	Statistical Thermodynamics
MATH 315	(3)	Ordinary Differential Equations
MIMM 211	(3)	Introductory Microbiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

11.13.7.11 Bachelor of Science (B.Sc.) - Major Chemistry: Biophysical Chemistry (66 credits)

This program trains students in the fundamentals of chemistry and develops the physical science, computational, and mathematical skills needed for advanced biophysical chemistry research in the biomedical and biotechnology industries. The program features integrative, interdisciplinary courses in bio-physical sciences.

Program Prerequisites

Pre-Program Requirements: Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (59 credits)

The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level.

Introductory Org

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 365	(2)	Statistical Thermodynamics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
CHEM 575	(3)	Chemical Kinetics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
MATH 222**	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (3 credits)

3 credits from:

CHEM 514	(3)	Biophysical Chemistry
CHEM 516	(3)	Nuclear and Radiochemistry
CHEM 531	(3)	Chemistry of Inorganic Materials Small Molecule Crystallograph

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who hav

Bachelor of Science (B.Sc.) - Honour

CHEM 470	(6)	Research Project 1
CHEM 480	(3)	Undergraduate Research Project 2

Instrumental

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 319	(3)	Introduction to Biophysics
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
MATH 222**	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
PHYS 329	(3)	Statistical Physics with Biophysical Applications

Chemistry

CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 470	(6)	Research Project 1
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses

(9-10 credits)

3 credits of:

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2

6-7 credits of:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 316	(3)	Biomembranes and Organelles
BIOL 551	(3)	Principles of Cellular Control
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 514	(3)	Biophysical Chemistry
CHEM 520	(3)	Methods in Chemical Biology

CHEM 555	(3)	Magnetic Resonance Spectroscopy
CHEM 575	(3)	Chemical Kinetics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

Bac

CHEM 381	(3)	Inorganic Chemistry 2
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
CHEM 575	(3)	Chemical Kinetics
MATH 222**	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (15 credits)

6 credits from:

CHEM 514	(3)	Biophysical Chemistry
CHEM 516	(3)	Nuclear and Radiochemistry
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 533	(3)	Small Molecule Crystallography
CHEM 534	(3)	Nanoscience and Nanotechnology
CHEM 547	(3)	Laboratory Automation
CHEM 555	(3)	Magnetic Resonance Spectroscopy
CHEM 556	(3)	Advanced Quantum Mechanics
CHEM 567	(3)	Chemometrics: Data Analysis
CHEM 577	(3)	Electrochemistry
CHEM 585	(3)	Colloid Chemistry
CHEM 593	(3)	Statistical Mechanics
CHEM 597	(3)	Analytical Spectroscopy

6 credits of research*:

* Students may take up to 9 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 470	(6)	Research Project 1
CHEM 480	(3)	Undergraduate Research Project 2

Or other research-related courses at the 400 or 500 lev

11.13.8 Cognitive Science

11.13.8.1 About Cognitive Science

Cognitive Science is the multidisciplinary study of cognition in humans, animals, and machines. The goal is to understand the principles of intelligence and thought with the hope that this will lead to a better understanding of the mind and of learning, and to the development of intelligent devices.

Students wishing to enrol in the **Minor in Cognitive Science** must meet with the Interdisciplinary Programs Adviser in the Faculty of Science. Please refer to mcgill.ca/cogsci for advising information.

11.13.8.2 Bachelor of Science (B.Sc.) - Minor Cognitive Science (24 credits)

The Minor Cognitive Science is intended to allow students in the Faculty of Arts or the Faculty of Science to explore the interdisciplinary study of cognition. The goal is to understand the principles of intelligence with the hope that this will lead to a better understanding of the mind and learning.

Students wishing to complete this Minor must meet with the Interdisciplinary Programs Adviser in the Science Office for Undergraduate Student Advising (SOUSA).

Required Course (3 credits)

PSYC 433	(3)	Cognitive Science
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Complementary Courses (21 credits)

Note:

Students must take a minimum of 6 credits at the 400 to 500 level.

Students may not take any courses from their home department(s).

Students complete a minimum of 9 credits each in two areas.

Computer Science and Mathematics

COMP 206	(3)	Introduction to Software Systems
COMP 230	(3)	Logic and Computability
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424	(3)	Artificial Intelligence
COMP 527	(3)	Logic and Computation
COMP 531	(3)	Advanced Theory of Computation
MATH 318	(3)	Mathematical Logic

Linguistics

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 355	(3)	Language Acquisition 1
LING 371	(3)	Syntax 1
LING 419	(3)	Linguistic Theory and its Foundations
LING 440	(3)	Morphology
LING 455	(3)	Second Language Syntax

LING 571	(3)	Syntax 2
LING 590	(3)	Language Acquisition and Breakdown

Philosophy

PHIL 210	(3)	Introduction to Deductive Logic 1
PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 415	(3)	Philosophy of Language
PHIL 474	(3)	Phenomenology

Psychology

PSYC 213	(3)	Cognition
PSYC 301	(3)	Animal Learning and Theory
PSYC 304	(3)	Child Development
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 340	(3)	Psychology of Language
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development

11.13.9 Computer Science (COMP)**11.13.9.1 Location****Main Office**

McConnell Engineering Building, Room 318
 3480 University Street
 Montreal QC H3A 0E9
 Telephone: 514-398-7071
 Fax: 514-398-3883

Undergraduate Student Affairs Office

McConnell Engineering Building, Room 320
 3480 University Street
 Montreal QC H3A 0E9
 Telephone: 514-398-7071 ext. 00739
 Fax: 514-398-3883

Email: ugrad-sec@cs.mcgill.ca

Website: cs.mcgill.ca

11.13.9.2 About Computer Science

Computer Science covers the theory and practice behind the design and implementation of computer and information systems. Fundamental to computer science are questions about how to describe, process, manage, and analyse information and computation. A fundamental building block is the study of algorithms. An algorithm presents a detailed sequence of actions solving a particular task. A computer program is the implementation of an algorithm in a specific programming language, which enables a computer to execute the algorithm. Software generally refers to a computer program or a set of related computer programs.

Based on the building blocks of computational thinking and programming, computer science is split into many different areas. Examples are:

- The study of algorithms and data structures
- Programming languages and methodology
- Theory of computation
- Software engineering (the design of large software systems)
- Computer architecture (the structure of the hardware)
- Communication between computers
- Operating systems (the software that shields users from the underlying hardware)
- Database systems (software that handles large amounts of data efficiently)
- Artificial intelligence and Machine Learning (algorithms inspired by human information processing)
- Computer vision (algorithms that let computers see and recognize their environment)
- Computer graphics
- Robotics (algorithms that control robots)
- Computational biology (algorithms and methods that address problems inspired by biology)

Computer science also plays an important role in many other fields, including Biology, Physics, Engineering, Business, Music, and Neuroscience, where it is necessary to process and reason about large amounts of data. Computer Science is strongly related to mathematics, linguistics, and engineering.

A degree in Computer Science offers excellent job prospects. The use of computers and specialized software plays a crucial role in business, science, and our personal life. Computer science graduates are in high demand. Computer scientists find jobs in software development, consulting, research, and project management. As computer scientists often develop the software for a specific application domain (e.g., business, engineering, medicine), they must be prepared and willing to get to know their application area.

The School of Computer Science offers a wide range of programs. Most programs start with the same set of basic courses allowing students to decide on their exact program once they get a basic understanding of the discipline. Within the Faculty of Science, there are:

- Major, Honours, Liberal, and Minor programs in Computer Science;
- Major, Honours, and Liberal programs in Software Engineering;
- Major in Computer Science: Computer Games Option;
- Major and Honours in Mathematics and Computer Science (see [section 11.13.22: Mathematics and Statistics \(MATH\)](#));
- Major and Honours in Statistics and Computer Science (see [section 11.13.22: Mathematics and Statistics \(MATH\)](#));
- Major and Honours in Physics and Computer Science (see [section 11.13.30: Physics \(PHYS\)](#));
- Major and Honours in Computer Science and Biology (see [section 11.13.5: Biology \(BIOL\)](#)).

The School also offers a Major Concentration and Minor concentrations in Computer Science, and a Major Concentration in Software Engineering through the Faculty of Arts (see [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.7: Computer Science \(COMP\)](#)), or as part of a Bachelor of Arts and Science (see [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.10: Computer Science \(COMP\)](#)).

The School's courses are available as electives to Engineering students. Engineering students interested in a minor in Computer Science should consult [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > Minor Programs > section 6.12.10.7: Computer Science Courses and Minor Program](#).

Most course instructors are faculty members of the School that do research in the areas they teach. The School favours interactive teaching practices where students get to know their professors and have the opportunity to do cutting-edge research. Some graduate courses in Computer Science are available to suitably qualified senior undergraduates. The School offers large computing labs in the Lorne Trotter Building, which is dedicated to undergraduate students.

All students planning to enter Computer Science programs are strongly encouraged to make an appointment with an academic adviser through the School's Undergraduate Student Affairs Office (see cs.mcgill.ca/academic/undergrad/advising).

11.13.9.3 Internship Opportunities

Students who want to get practical experience in industry before graduation are encouraged to participate in one of the following internship programs:

- The **Internship Year in Science (IYS)** is offered for a duration of 8, 12, or 16 months. It will be reflected on the student's transcript and is included in the program name (Bachelor of Science – Internship Program).
- The **Industrial Practicum (IP)** has a duration of four months and is usually carried out starting in May. It will appear as a 0-credit, Pass/Fail course on the student's transcript. If a student completes two IPs, the program name will change to include the word "internship."

For more information on these opportunities, consult [section 11.12: Science Internships and Field Studies](#) or mcgill.ca/science/undergraduate/internships-field.

11.13.9.4 Research Opportunities

Computer science undergraduates have excellent opportunities to participate in research. Each summer, several awards are available, such as the NSERC Undergraduate Student Research Awards; these offer financial support for a research e

Associate Professors

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, German)

Complementary Courses (27 credits)

3 credits from each of the groups A, B, C, and D.

Group A

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 340	(3)	Discrete Mathematics

Group C

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

Group D

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from any COMP courses at the 300 level or above except COMP 364 and COMP 396.

11.13.9.9 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Software Engineering (49 credits)

This program covers a core of programming and software engineering courses and allows students to select courses that aim at practical aspects of software development.

Required Courses (36 credits)

MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (13 credits)

3 credits selected from:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

10 credits from:

COMP 322	(1)	Introduction to C++
COMP 409	(3)	Concurrent Programming
COMP 421	(3)	Database Systems
COMP 520	(4)	Compiler Design
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
COMP 535	(4)	Computer Networks 1
ECSE 326	(3)	Software Requirements Engineering
ECSE 437	(3)	Software Delivery
ECSE 539	(4)	Advanced Software Language Engineering

Complementary Courses (30 credits)

Students should talk to an academic adviser before choosing their complementary courses.

At least 6 credits selected from:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

3-9 credits selected from:

* Must include at least one of MATH 323 and MATH 340.

MATH 318	(3)	Mathematical Logic
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 340*	(3)	Discrete Mathematics

At least 6 credits at the 400-level or above.

The remaining credits selected from computer science courses at the 300 level or above (except COMP 364 and COMP 396) and ECSE 539.

Note: Students have to make sure that they have the appropriate prerequisites when choosing upper-level courses.

11.13.9.11 Bachelor of Science (B.Sc.) - Major Computer Science and Biology (74 credits)

This program will focus on the fundamentals of biology and will give them computational and mathematical skills needed to

(3) Software Engineering Project

Required Courses

COMP 535

(4)

Computer Networks 1

11.13.9.13 Bachelor of Science (B.Sc.) - Major Software Engineering (63 credits)

This program provides a broad introduction to the principles of computer science and covers in depth the design and development of software systems. Students may complete this program with a maximum of 63 credits or a minimum of 60 credits if they are exempt from taking COMP 202.

Required Courses

MATH 350** (3) Honours Discrete Mathematics

Complementary Courses (27 credits)

6 credits selected from:

MATH 318 (3) Mathematical Logic
MATH 323 (3) Probability
MATH 324 (3) Statistics

The remaining credits selected from computer science courses at the 300 level or above (except COMP 364 and COMP 396) and ECSE 539. At least 12 credits must be at the 500 level.

11.13.9.15 Bachelor of Science (B.Sc.) - Honours Computer Science and Biology (77 credits)

This program focuses on the fundamentals of biology with a focus on molecular biology, and gives them computational and mathematical skills needed to manage, analyze, and model large biological datasets. Compared to the Joint Major counterpart, this program requires additional research credits and a larger number of advanced courses. Students must maintain a minimum CGPA of 3.5. To graduate with First Class Honours, the CGPA must be at least 3.75.

Students may complete this program with a minimum of 67 and a maximum of 77 credits, depending upon whether they take COMP 202/204, CHEM 212, MATH 222.

Program Prerequisites: U0 (freshman) students should take: BIOL 111-112, CHEM 110-120, MATH 133, MATH 140-141 or MATH 150-151, PHYS 101-102 or PHYS 131-142. Note that MATH 150-151 provides equivalence for required course MATH 222.

Students who do not have a background in computer programming at the level of COMP 202 or COMP 204 must take one of these courses. COMP 204 is considered equivalent to COMP 202 as a prerequisite for COMP 206 and COMP 250.

Required Courses

43-53 credits:

Bio-Physical Sciences Core

BIOL 219 (4) Introduction to Physical Molecular and Cell Biology
BIOL 301 (4) Cell and Molecular Laboratory
BIOL 395 (1) Quantitative Biology Seminar
CHEM 212* (4) Introductory Organic Chemistry 1
COMP 202** (3) Foundations of Programming
MATH 222* (3) Calculus 3
MATH 223 (3) Linear Algebra
MATH 323 (3) Probability

Computer Science and Mathematics

COMP 204** (3) Computer Programming for Life Sciences
Introduction to Software Systems

BIOL 215 (3) Introduction to Ecology and Evolution

Joint Courses

COMP 402D1 (3) Honours Project in Computer Science and Biology

COMP 402D2 (3) Honours Project in Computer Science and Biology

* Students with CEGEP-level credit for the equivalents of MATH 222 and/or CHEM 212 (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take these courses at McGill and should replace them with electiv

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 316	(3)	Biomembranes and Organelles
BIOL 319	(3)	Introduction to Biophysics
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 395	(1)	Quantitative Biology Seminar
BIOL 416	(3)	Genetics of Mammalian Development
BIOL 434	(3)	Theoretical Ecology
BIOL 435	(3)	Natural Selection
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 568	(3)	Topics on the Human Genome
BIOL 569	(3)	Developmental Evolution

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COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 400	(4)	Project in Computer Science
ECSE 429	(3)	Software Validation
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (33 credits)

At least 9 credits must be from Groups A and B, with at least 3 credits from each:

At least 18 credits must be from Groups C and D, with at least 9 credits from Group C and at least 6 credits from Group D.

At least 12 credits must be from COMP courses at the 500 level or above.

Group A:

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

Group C: Software Engineering Specialization

* Students may select either COMP 409 or ECSE 420, but not both.

COMP 409*	(3)	Concurrent Programming
COMP 523	(3)	Language-based Security
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
ECSE 326	(3)	Software Requirements Engineering
ECSE 420*	(3)	Parallel Computing
ECSE 424	(3)	Human-Computer Interaction
	(3)	Software Delivery

COMP 535	(4)	Computer Networks 1
COMP 551	(4)	Applied Machine Learning
COMP 557	(4)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computer Vision

11.13.9.17 Computer Science (COMP) Related Programs

11.13.9.17.1 Major and Honours in Mathematics and Computer Science

For more information, see [section 11.13.22: Mathematics and Statistics \(MATH\)](#). Honours students must consult an Honours adviser in both departments.

11.13.9.17.2 Major and Honours in Statistics and Computer Science

For more information, see [section 11.13.22: Mathematics and Statistics \(MATH\)](#). Honours students must consult an Honours adviser in both departments.

11.13.9.17.3 Major and Honours in Physics and Computer Science

For more information, see [section 11.13.30: Physics \(PHYS\)](#). Honours students must consult an Honours adviser in both departments.

11.13.9.17.4 Minor in Cognitive Science

Students following Major or Honours programs in Computer Science may want to consider the Minor in Cognitive Science. For more information, see [section 11.13.8: Cognitive Science](#).

11.13.10 Earth and Planetary Sciences (EPSC)

11.13.10.1 Location

Frank Dawson Adams Building, Room 238
 3450 University Street
 Montreal QC H3A 0E8
 Telephone: 514-398-6767
 Fax: 514-398-4680
 Email: kristy.thornton@mcgill.ca
 Website: mcgill.ca/eps

11.13.10.2 About Earth and Planetary Sciences

Earth and Planetary Sciences is a multidisciplinary field that includes the solid Earth and its hydrosphere and extends to the neighbouring terrestrial planets. Principles of chemistry, physics, and mathematics are applied to elucidate the complex and diverse planetary processes at play as we seek to understand how

Professor Jeanne Paquette
Frank Dawson Adams Building, Room 214
Telephone: 514-398-4402
Email: jeanne.paquette@mcgill.ca

11.13.10.4 Earth and Planetary Sciences Faculty

Chair

Jeffrey McKenzie

Emeritus Professors

Jafar Arkani-Hamed; B.Eng.(Tehran), Ph.D.(MIT)

Donald Francis; B.Sc.(McG.), M.Sc.(Br. Col.), Ph.D.(MIT)

Reinhard Hesse; D.Sc., Ph.D.(Tech. Munich)

Andrew J. Hynes; B.Sc.(Tor.), Ph.D.(Cant.)

Robert F. Martin; B.Sc.(Ott.), M.S.(Penn. St.), Ph.D.(Stan.)

Alfonso Mucci; B.Sc., M.Sc.(Montr.), Ph.D.(Miami)

Colin W. Stearn; B.Sc.(McM.), M.S., Ph.D.(Yale), F.R.S.C.

Professors

Don Baker; A.B.(Chic.), Ph.D.(Penn. St.)

Eric Galbraith; B.Sc. (McG.), Ph.D. (Br. Col.)

Galen Halverson; B.A.(Mont.), M.A., Ph.D.(Harv.) (*T.H. Clark Chair in Sedimentary and Petroleum Geology*)

Olivia G. Jensen; B.Sc., M.Sc., Ph.D.(Br. Col.)

Jeffrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)

John Stix; A.B.(Dart.), M.Sc., Ph.D.(Tor.)

A.E. (Willy)

11.13.10.5 Bachelor of Science (B.Sc.) - Minor Geology (18 credits)

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (12 credits)

3 credits, one of:

EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

EPSC 231	(3)	Field School 1
EPSC 303	(3)	Structural Geology
EPSC 334	(3)	Invertebrate Paleontology
EPSC 350	(3)	Tectonics
EPSC 452	(3)	Mineral Deposits
EPSC 561	(3)	Ore-forming Processes

11.13.10.6 Bachelor of Science (B.Sc.) - Minor Geochemistry (18 credits)

The Minor in Geochemistry focuses on the chemistry of Earth's lithosphere, its reactivity in contact with the atmosphere and/or the hydrosphere, and the chemistry of extra-terrestrial materials.

The appropriate background in chemistry is required: (CHEM 110 and CHEM 120, or their equivalent) and calculus (MATH 139 and MATH 141, or their equivalent).

Required Courses (9 credits)

EPSC 201	(3)	Understanding Planet Earth
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (9 credits)

9 credits selected from:

EPSC 220	(3)	Principles of Geochemistry
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 549	(3)	Hydrogeology
EPSC 570	(3)	Cosmochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

11.13.10.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Earth and Planetary Sciences (45 credits)

The B.Sc. (Liberal) program in Earth and Planetary Sciences provides the graduate with a solid core of knowledge of Geology, Geophysics, Earth Systems Science, and Planetary Science while allowing for a broadening of the student's educational experience with courses from the other sciences or the arts. The program is flexible, allowing students to assemble a truly interdisciplinary degree.

Required Courses (21 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233	(3)	Earth and Life History
EPSC 303	(3)	Structural Geology
EPSC 320	(3)	Elementary Earth Physics

Complementary Courses (24 credits)

3 credits, one of:

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

plus 21 credits chosen from the following:

Note: Courses at the 300 or higher level in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 530	(3)	Volcanology
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
EPSC 570	(3)	Cosmochemistry

EPSC 580	(0)	
EPSC 590	(3)	Applied Geochemistry Seminar
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 500	(3)	Earth System Applications

11.13.10.8 Bachelor of Science (B.Sc.) - Major Geology (66 credits)

The program curriculum provides a rigorous foundation in the fundamental earth science subjects and in the advanced subjects relevant to exploration for energy resources, industrial and ore minerals, and to environmental geosciences. The program meets the academic requirements shared by the professional orders for geologists and environmental geoscientists in most Canadian provinces. It also offers students the opportunity to take courses or acquire experience in areas of current research. It is a path to a wide range of careers in industry, teaching and research in earth sciences.

Required Courses (30 credits)

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15 credits of other specializations can be drawn from the cate

Complementary Courses (33 credits)

15 credits of advanced earth science

EPSC 334	(3)	Invertebrate Paleontology
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits

3 credits of field school

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

3 credits of environmental and ore-forming processes

EPSC 513	(3)	Climate and the Carbon Cycle
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 590	(3)	Applied Geochemistry Seminar

12 credits of other specializations can be drawn from the categories above or from:

EPSC 350	(3)	Tectonics
EPSC 435	(3)	Applied Geophysics
EPSC 501	(3)	Crystal Chemistry
EPSC 503	(3)	Advanced Structural Geology
EPSC 510	(3)	Geodynamics
EPSC 520	(3)	Earthquake Physics and Geology
EPSC 530	(3)	Volcanology
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 567	(3)	Advanced Volcanology

Courses from other departments may also be used, with the permission of the Director of u3ne8o9 permission of the o0oS 106agraduimatstudoried,henof te8o9 permiss4

Required Courses (66 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233	(3)	Earth and Life History
		d Schltoogy.eld Geology in the Field

EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
EPSC 590	(3)	Applied Geochemistry Seminar

11.13.10.11 Earth and Planetary Sciences (EPSC) Related Programs

11.13.10.11.1 Joint Major in Physics and Geophysics

For more information, see [section 11.13.30: Physics \(PHYS\)](#).

11.13.10.11.2 Earth System Science Interdepartmental Major

This program is offered by the Departments of Atmospheric and Oceanic Sciences; Earth and Planetary Sciences; and Geography. Students in the Department of Earth and Planetary Sciences who are interested in this program should contact Professor William Minarik (william.minarik@mcgill.ca).

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

11.13.10.11.3 Earth System Science Interdepartmental Honours

This program is offered by the Departments of Atmospheric and Oceanic Sciences; Earth and Planetary Sciences; and Geography. Students in the Department of Earth and Planetary Sciences who are interested in this program should contact Professor William Minarik (william.minarik@mcgill.ca).

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

11.13.11 Earth System Science (ESYS)

11.13.11.1 Location

Program Adviser
 Dr. William Minarik
 Frank Dawson Adams, Room 215
 Telephone: 514-398-2596
 Email: william.minarik@mcgill.ca
 Website: ess.mcgill.ca

11.13.11.2 About Earth System Science

The McGill interdepartmental **Major** program in Earth System Science (ESYS) is designed to equip students with the skills and knowledge to address six “Grand Challenges” that are fundamental to our understanding of the way in which the Earth operates. These Grand Challenges are being tackled with scientific and technological innovation and interdisciplinary research, creating bountiful employment opportunities for ESYS graduates in industry, research institutions, and government. They are:

- Global biogeochemical cycles;
- Climate variability and change;
- Land use and land cover change;
- Energy and resources;
- Earth hazards: volcanoes, earthquakes, and hurricanes; and
- Earth-atmosphere observation, analysis, and prediction.

Many of our graduates go on to M.Sc. or Ph.D. programs in a variety of scientific fields that address these grand challenges, including those arising from the interaction of human activities and natural systems.

Career opportunities after a B.Sc. are diverse and increasing. Our graduates work for environmental consulting firms (assessing suitable sites for new industrial facilities and predicting their environmental impact, and cleaning contaminated sites), research groups in re-insurance firms (evaluating risks of natural disasters), in product's life cycle management (studying energy and resources use, and the effect of recycling or waste disposal), and software companies that develop algorithms to assist farmers on choices of crops and soil management practices, and business owners with inventory management.

The **Honours** program in Earth System Science (ESYS) prepares students for graduate studies in a wide range of transdisciplinary programs that address these challenges.

The ESS programs are offered jointly by the Department of [section 11.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#), the Department of [section 11.13.10: Earth and Planetary Sciences \(EPSC\)](#), and the Department of [section 11.13.17: Geography \(GEOG\)](#).

The individual departments, their disciplines, and specific courses offered by them are described in their respective entries in this publication.

11.13.11.3 Bachelor of Science - Minor Earth System Science (18 credits)

The Minor in Earth System Science (ESYS) is offered jointly by the following departments:

Atmospheric and Oceanic Sciences (ATOC)

Earth and Planetary Sciences (EPSC)

Geography (GEOG)

Required Courses (12 credits)

3 credits from the following:

- | | | |
|----------|-----|---|
| ATOC 214 | (3) | Introduction: Physics of the Atmosphere |
| ATOC 219 | (3) | Introduction to Atmospheric Chemistry |

3 credits from the following:

- | | | |
|----------|-----|----------------------------|
| EPSC 210 | (3) | Introductory Mineralogy |
| EPSC 220 | (3) | Principles of Geochemistry |

3 credits from the following:

- | | | |
|----------|-----|--------------------------------------|
| GEOG 308 | (3) | Remote Sensing for Earth Observation |
|----------|-----|--------------------------------------|
- Geosp1((3))Tj1 0 0 1 7or4g:

ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
BIOL 308	(3)	Ecological Dynamics
BIOL 309	(3)	Mathematical Models in Biology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 540	(3)	Ecology of Species Invasions
		Vertebrate P

GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 351	(3)	Quantitative Methods
GEOG 372	(3)	Running Water Environments
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 470	(3)	Wetlands
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.20, and a minimum grade of B+ in ESYS 300, ESYS 301, and ESYS 500.

Required Courses (27 credits)

ENVR 201	(3)	Society, Environment and Sustainability
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 480D1	(3)	Honours Research Project
ESYS 480D2	(3)	Honours Research Project
ESYS 500	(3)	Earth System Applications
MATH 222	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (39 credits)

3 credits from the following:

EPSC 340	(3)	Earth and Planetary Inference
MATH 203	(3)	Principles of Statistics 1

3 credits from the following:

COMP 202	(3)	Foundations of Programming
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

3 credits from the following:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 219	(3)	Introduction to Atmospheric Chemistry

3 credits from the following:

EPSC 210	(3)	Introductory Mineralogy
EPSC 220	(3)	Principles of Geochemistry

3 credits from the following:

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis

3 credits from the following:

ENVR 200	(3)	The Global Environment
GEOG 203	(3)	Environmental Systems

3 credits from the following:

BREE 533	(3)	Water Quality Management
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
EPSC 212	(3)	Introductory Petrology
EPSC 320	(3)	Elementary Earth Physics
EPSC 331	(3)	Field School 2
EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 341	(3)	Field School 3
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 525	(3)	Microbiology of the Earth System
EPSC 530	(3)	Volcanology
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 351	(3)	Quantitative Methods
GEOG 372	(3)	Running Water Environments
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 470	(3)	Wetlands
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate

Global Land and W1 0 0sj1 0 0 1 165.8 Tm(Soils and En)Tj1 0T 0 1 165.8 Tm(Soils au4 27n4Tm(EPSC 530)Tj1 0 0 15

11.13.13 Environment

Science students who are interested in studying the environment should refer to *Bieler School of Environment > Undergraduate*.

- Minor: *section 7.7.1: Minor in Environment*
- Major: *section 7.7.4: Major in Environment - B.Sc.(Ag.Env.Sc.) and B.Sc.* or *section 7.7.5: Major in Environment – B.Sc.*
- Honours: *section 7.7.6: Honours Program in Environment*
- Diploma: *section 7.7.8: Diploma in Environment*

11.13.14 Experimental Medicine (EXMD)

Program descriptions for each of the field study semesters are provided below.

Note: The field study semesters are not degree programs. Credits may be counted toward McGill degrees with the permission of program advisers. Students who complete a field study semester may consult the Field Study Minor adviser about completing the Minor program as part of their McGill degree.

URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Barbados Field Study Semester - Complementary Courses

9 credits

Students select one 3-credit course titled "Water Resources in Barbados" and one 6-credit course titled "Sustainable Development Plans" from the list below.

AGRI 452	(3)	Water Resources in Barbados
AGRI 519	(6)	Sustainable Development Plans
CIVE 452	(3)	Water Resources in Barbados
CIVE 519	(6)	Sustainable Development Plans
URBP 519	(6)	Sustainable Development Plans

Barbados Interdisciplinary Tropical Studies Field Semester (15 credits)

The Barbados Interdisciplinary Tropical Studies (BITS) Field Semester is an activity-filled, hands-on experience for students with an interest in international studies with a Caribbean flavour. The focus is on sustainable agri-food, nutrition, and energy production on a tropical island with a tourist-based economy. It is offered annually (in the Summer). It consists of two 2-hour orientation sessions conducted on the Macdonald campus and at the Bellairs Research Institute in Barbados, followed by three 3-credit and one 6-credit project courses at Bellairs Research Institute. This program integrates intensive course work with group project work and contributes to the formation of professionals with planning, managing, decision-making, and communication skills. The program addresses a global need for experienced professionals capable of interacting with various levels of government, non-governmental organizations, and the private sector

GEOG 498 (3) Humans in Tropical Environments

Second Winter semester complementary courses:

GEOG 404 (3) Environmental Management 2

HIST 510 (3) Environmental History of Latin America (Field)

McGill Arctic Field Study Semester

Required Courses (15 credits)

9 credits

ATOC 373 (3) Arctic Climate and Climate Change

EPSC 373 (3) Arctic Geology

GEOG 373 (3) Arctic Geomorphology

and 6 credits from

ATOC 473 (6) Arctic Field Research

EPSC 473 (6) Arctic Field Research

GEOG 473 (6) Arctic Field Research

Minor Field Studies - Complementary Course

In consultation with their departmental adviser and/or the Field Study Minor adviser, students who have completed one of the field study semesters described above may select a 3-credit complementary course to complete the requirements for the Minor and ask for it to be added to their academic records.

11.13.16 General Science

11.13.16.1 Location

Interdisciplinary Programs Adviser
 Ryan Bouma
 Telephone: 514-398-7330
 Email: ryan.bouma@mcgill.ca

11.13.16.2 About the General Science Minor

The Minor in General Science is only open to students in a B.Sc. Liberal program. Students interested in completing this Minor must consult with the Adviser for this program. See the program description in [section 11.13.16.3: Bachelor of Science \(B.Sc.\) - Minor General Science \(18 credits\)](#) for more information.

11.13.16.3 Bachelor of Science (B.Sc.) - Minor General Science (18 credits)

The Minor General Science is restricted to students in the B.Sc. Liberal program and may be used for the breadth component in this option. Students should consult their program adviser for their core science component and the Interdisciplinary Programs Adviser when selecting courses for this Minor.

Complementary Courses (18 credits)

Courses are to be chosen according to the following guidelines:

All courses must be offered by the Faculty of Science and must be at or above the 200 level*.

All courses must be different from the student's core science component courses.

Two options:

9 credits at the 300 level or above and at least 9 credits outside the student's core science component subject.

or

12 credits at the 300 level or above and at least 6 credits outside the student's core science component subject.

* Note: All Undergraduate research project courses with the 396 or 397 course number cannot be used tow

Associate Professors

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)
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)
K. Manaugh; B.A.(Naropa), M.Sc.
T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Camb.)
S. Moser; Ph.D.(NUS)
B. Robinson; B.Sc.(Georgia Tech.), M.Eng., MCP(MIT), Ph.D.(Wisc. Madison)
R. Sengupta; M.Sc., Ph.D.(Ill.) (*joint appt. with Bieler School of Environment*)
R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with Bieler School of Environment*)
I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Bieler School of Environment*)
J. Unruh; B.A.(Kansas), M.S.(Wisc. Madison), Ph.D.(Ariz.)

Assistant Professors

Y. le Polain de Waroux; Ph.D.(Louvain)
G. MacDonald; M.Sc., Ph.D.(McG.)
G. McKenzie; B.A.(Br. Col.), M.Sc.A.(Melb.), Ph.D.(Calif., Stanford)
M. Riva; M.Sc., Ph.D.(Montr.) (*joint appt. with the Institute for Health and Social Policy*)
C. von Sperber; Ph.D.(ETH Zurich)

Adjunct Professor

G. Leblanc; Ph.D.(Mc.M.)
J. Wu; Ph.D.(McG.)

11.13.17.3 **Environ**
The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic concepts of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (6. h.503 296.24 Tm(el.)i58.3.891 12400 1 258.5ool of En

9 credits at a 300 and 400 level from any Geography course.

11.13.17.6 Bachelor of Science (B.Sc.) - Minor GIS & Remote Sensing (18 credits)

The Minor GIS & Remote Sensing program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Course (6 credits)

GEOG 201	(3)	Introductory Geo-Information Science Geospatial
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Complementary Courses (36 credits)

3 credits of statistics*

* Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

9 credits of systematic physical geography

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 373	(3)	Arctic Geomorphology
GEOG 470	(3)	Wetlands

Students must take a total of 9 credits from the next 2 blocks; they will choose 6 credits from one block and 3 credits from the other, depending on their training focus.

6 or 9 credits of environmental analysis/techniques

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414	(3)	Advanced Geospatial Analysis

GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography Development and Livelihoods

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

9 credits of systematic physical geography:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 373	(3)	Arctic Geomorphology
GEOG 470	(3)	Wetlands

3 credits of field courses:

(Field course availability is determined each year in February.)

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Students must take a total of 15 credits from the next 2 blocks; they will choose 9 credits from one block and 6 credits from the other block, depending on their training focus.

6 or 9 credits of environmental analysis/techniques

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414	(3)	Advanced Geospatial Analysis

6 or 9 credits in (Environment, Earth System and Sustainability sciences)

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 302	(3)	Environmental Management 1
GEOG 360	(3)	Analyzing Sustainability
GEOG 460	(3)	Research in Sustainability

9 credits on human-environment linkages

GEOG 210	(3)	Global Places and Peoples
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GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 311	(3)	Economic Geography
GEOG 315	(3)	Urban Transportation Geography

6 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any complementary courses from the above complementary lists.

Admission to 500-level courses in Geography requires the instructor's permission. It is not advisable to take more than one 500-level course in a term.

Geography Approved Course List - Major, Honours and Liberal Programs

GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 404	(3)	Environmental Management 2
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

11.13.17.9 Bachelor of Science (B.Sc.) - Honours Geography (66 credits)

The Honours program provides specialized systematic training in physical geography. In addition to the Faculty of Science 3.00 CGPA requirement, students in a Geography Honours program must maintain a program GPA of 3.30 and complete a 6-credit Honours thesis.

Required Courses (21 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research

Complementary Courses (45 credits)

9 credits on human-environment linkages

GEOG 210	(3)	Global Places and Peoples Geography of the
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GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 311	(3)	Economic Geography
GEOG 315	(3)	Urban Transportation Geography

3 credits of statistics*, one of:

* Note: Credit gi

GEOG 302	(3)	Environmental Management 1
GEOG 360	(3)	Analyzing Sustainability
GEOG 460	(3)	Research in Sustainability

6 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any geography courses from the above complementary lists.

Geography Approved Course List - Major, Honours and Liberal Programs

GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 404	(3)	Environmental Management 2
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

11.13.17.10 Geography (GEOG) Related Programs and Study Semesters

The following programs, as well as several other opportunities for field study, are offered by the Faculty of Science. For further information, refer to mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare/field-study-semester or the *Science Internship & Field Studies Office*.

11.13.17.101 Africa Field Study Semester

The Africa program introduces students to East Africa specifically with a view to increasing their understanding of the goals, circumstances, challenges, and opportunities of people living in the areas visited. For more information, see mcgill.ca/africa.

11.13.17.102 Panama Field Study Semester

The Panama program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) and addresses Latin America's social and tropical environmental issues. For more information, see mcgill.ca/pfss.

11.13.17.103 Arctic Field Study Semester

The primary mission of the McGill Arctic Field Studies is to train a future generation of northern specialists and leaders who are able to understand and address the rapidly changing polar environment in a scientifically and culturally responsible manner. For more information, see mcgill.ca/arctic.

11.13.17.104 Earth System Science Interdepartmental Major

This program is offered by the Department of Atmospheric and Oceanic Sciences; Earth and Planetary Sciences; and Geography.

Students in the Department of Geography interested in this program should contact:

William (Bill) Minarik
Telephone: 514-398-2596
Email: william.minarik@mcgill.ca

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

11.13.17.105 Sustainability, Science and Society – Bachelor of Arts and Science (B.A. & Sc.)

The Interfaculty Program in Sustainability, Science and Society as well as the Honours in Sustainability, Science and Society is open only to students in the B.A. & Sc. degree.

Students in the Department of Geography interested in this program should contact:

Michelle Maillet
Email: advisor.geog@mcgill.ca

For more information about these programs, see [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.35: Sustainability, Science and Society](#).

11.13.18 Immunology

11.13.18.1 Location

McGill Uni

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
MIMM 211**	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209**	(3)	Mammalian Physiology 1

U2 Required Courses

13 credits from the following:

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
MIMM 314	(3)	Intermediate Immunology

U3 Required Courses

15 credits from the following:

MIMM 414	(3)	Advanced Immunology
PHGY 419D1	(4.5)	Immunology Research Project
PHGY 419D2	(4.5)	Immunology Research Project
PHGY 513	(3)	Translational Immunology

Complementary Courses (27 credits)

U1 Complementary Courses

6 credits chosen in the following manner.

3 credits selected from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

plus 3 credits selected from the following:

* Students take either PHGY 209 or MIMM 211.

** Students take either CHEM 203 or CHEM 204.

ANAT 214	(3)	Systemic Human Anatomy
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 304	(3)	Evolution
CHEM 203**	(3)	Survey of Physical Chemistry

COMP 250	(3)	Introduction to Computer Science
MATH 204	(3)	Principles of Statistics 2
MIMM 211**	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
PHGY 209**	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Complementary Courses

12 credits chosen as follows:

6 credits selected from:

Students may take

9 credits of U3 complementary courses chosen in the following manner:

3 credits selected from:

BIOC 503	(3)	Immunochemistry
MIMM 509	(3)	Inflammatory Processes
PHGY 531	(3)	Topics in Applied Immunology

plus 6 credits selected from:

* Students take either ANAT 458 or BIOC 458, but not both.

ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 404	(3)	Biophysical Methods in Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Immunochemistry
BIOL 520	(3)	Gene Activity in Development
EXMD 504	(3)	Biology of Cancer
MIMM 413	(3)	Parasitology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 488	(3)	Stem Cell Biology
PHGY 531	(3)	Topics in Applied Immunology
PHGY 552	(3)	Cellular and Molecular Physiology

11.13.19 Interdisciplinary Life Sciences

11.13.19.1 Location

Interdisciplinary Programs Adviser
Ryan Bouma
Telephone: 514-398-7330
Email: ryan.bouma@mcgill.ca

11.13.19.2 About the Interdisciplinary Life Sciences Minor

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selections. Students must take 9 credits from an extensive list of basic life science courses, 3 credits from an extensive list of health and social science courses, and 3 credits from an empirical and technological science list. The remaining 9 credits may be taken from courses listed in any of the three categories.

Please note: Students studying in Anatomy and Cell Biology; Biochemistry; Honours Immunology; Microbiology and Immunology; Neuroscience; Pharmacology; and Physiology are not permitted to complete this Minor.

Interested students should contact the Interdisciplinary Programs Adviser.

Complementary Courses (24 credits)

CHEM 504	(3)	Drug Design
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
NSCI 201	(3)	Introduction to Neuroscience 2
NUTR 307	(3)	Metabolism and Human Nutrition
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

Health Social Science

At least 3 credits from:

ANTH 204	(3)	Anthropology of Meaning
ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ECON 440	(3)	Health Economics
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
HIST 249	(3)	Health and the Healer in Western History
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 381	(3)	Colonial Africa

HIST 424	(3)	Gender, Sexuality and Medicine
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
PHIL 237	(3)	Contemporary Moral Issues
PHIL 343	(3)	Biomedical Ethics
POLI 417	(3)	Health Care in Canada
PSYC 215	(3)	Social Psychology
PSYC 304	(3)	Child Development
PSYC 333	(3)	Personality and Social Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 413	(3)	Cognitive Development
PSYC 414	(3)	Social Development
SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge

Empirical Science and Technology

At least 3 credits from:

* Students who have already received credit for MATH 324 will NOT receive credit for GEOG 202, MATH 203, PSYC 204, BIOL 373, MATH 204, or PSYC 305.

11.13.20 Kinesiology for Science Students

11.13.20.1 Location

Department of Kinesiology and Physical Education
 Currie Gymnasium
 475 Pine Avenue West, 2nd Floor
 Montreal QC H2W 1S4
 Telephone: 514-398-4184, ext. 09689
 Fax: 514-398-4186
 Email: ugrad.kpe@mcgill.ca
 Website: mcgill.ca/edu-kpe

Program Adviser: Nada Abu-Merhy; ugrad.kpe@mcgill.ca

11.13.20.2 About Kinesiology for Science Students

Students planning a career in the health sciences, whether as a health professional or a biomedical researcher, will find courses in Kinesiology to be of interest from both theoretical and applied perspectives. There is a focus on the benefits of physical activity for health and well-being, as well as appropriate prescription of exercise in the treatment of various diseases, injuries, and disabilities. Courses deal with both prevention and rehabilitation.

Students are not permitted to enrol in more than the 18 credits of EDKP courses required for the Minor in Kinesiology for Science Students.

11.13.20.3 Bachelor of Science (B.Sc.) - Minor Kinesiology (24 credits)

The Minor Kinesiology is designed to provide students in B.Sc. programs with basic but comprehensive knowledge of scientific bases of human physical activity and its relationship with health and well-being.

Students registered in the Minor Kinesiology may not take additional courses outside the Faculties of Arts and of Science.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

Required Courses (15 credits)

EDKP 206	(3)	Biomechanics of Human Movement
EDKP 261	(3)	Motor Development
EDKP 395	(3)	Exercise Physiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (9 credits)

9 credits, three of the following courses:

EDKP 330	(3)	Physical Activity and Public Health
EDKP 394	(3)	Historical Perspectives
EDKP 396	(3)	Adapted Physical Activity
EDKP 405	(3)	Sport in Society
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology
EDKP 485	(3)	Cardiopulmonary Exercise Pathophysiology
EDKP 495	(3)	Scientific Principles of Training

EDKP 498	(3)	Sport Psychology
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 566	(3)	Advanced Biomechanics Theory

11.13.21 Management for Science Students

The Desautels Faculty of Management offers four minor programs for non-Management students open for application to students in the Faculty of Science. Please refer to [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.7: Minors for Non-Management Students](#) for detailed information about program requirements and applying.

Also available to Science students is the Minor in Entrepreneurship for Science students; see [section 11.13.12: Entrepreneurship for Science Students](#). Students in this Minor are not permitted to take the Desautels Minors in Finance, Management, Marketing, or Operations Management (for Non-Management students).

11.13.21.1 Bachelor of Commerce (B.Com.) - Minor Finance (For Non-Management Students) (18 credits)

The Minor Finance consists of 18 credits of Management courses and is offered to non-Management students in the Faculties of Arts, Engineering, and Science.

The Minor has been designed to provide students with an understanding of the key concepts in corporate finance as well as investment banking.

Required Courses (9 credits)

FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
MGCR 341*	(3)	Introduction to Finance

Complementary Courses (9 credits)

9 credits selected from:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 442	(3)	Capital Markets and Institutions
FINE 443	(3)	Applied Corporate Finance
FINE 444	(3)	Principles and Strategies of Securities Trading
FINE 445	(3)	Real Estate Finance
FINE 446	(3)	Behavioural Finance
FINE 447	(3)	Venture Capital and Entrepreneurial Finance
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Market Risk Models
FINE 451	(3)	Fixed Income Analysis
FINE 452	(3)	Applied Quantitative Finance
FINE 456	(3)	Trading in Financial Securities
FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Corporate Finance

or other appropriate 300- or 400-level FINE courses with the approval of the Program Adviser.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

Complementary Courses (9 credits)

3 credits:

MGCR 271*	(3)	Business Statistics
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6 credits selected from:

MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising and Media
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

11.13.21.4 Bachelor of Commerce (B.Com.) - Minor Operations Management (For Non-Management Students) (18 credits)

The Minor Operations Management consists of 18 credits of Management courses and is currently offered to non-Management students in the F

MGSC 578

(3)

Simulation of Management Systems

or other appropriate 300- or 400-level MGSC courses with the approval of the Program Adviser.

* 3 credits of Statistics: Students who have taken an equiv

11.13.22.5 Internship Opportunities

Students who want to get practical experience in industry before graduation are encouraged to participate in one of the following internship programs:

- The **Internship Year in Science (IYS)** is an option offered for a duration of 8, 12, or 16 months. It is reflected on the transcript and included in the program name (Bachelor of Science – Internship Program). Eligible students usually take this program between their U2 and U3 years.
- The **Industrial Practicum (IP)** has a duration of four months and is usually carried out starting in May. It will appear as a 0-credit, Pass/Fail course on your transcript.

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For more information on these opportunities, consult mcgill.ca/science/undergraduate/internships-field



Note: Students entering a program listed below that has MATH 222 (Calculus 3) as a required course and who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222 (Calculus 3) from the program, but must replace it with 3 credits of mathematics complementary courses chosen after consultation with a Mathematics *adviser*.

11.13.22.6 Mathematics and Statistics Faculty

Chair

Johanna Nesleh
Jacques C. Hurtubise

Graduate Program Director

Rustum Choksi

Professors

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)

Pengfei Guan; B.Sc.(Zhejiang), M.Sc., Ph.D.(Princ.) (*Distinguished James McGill Professor*)

Jacques C. Hurtubise; B.Sc.(Montr.), D.Phil.(Oxf.) F.R.S.C.

Dmitry Jakobson; B.Sc.(MIT), Ph.D.(Princ.) (*Peter Redpath Professor*)

Vojkan Jaksic; B.S.(Belgrade), Ph.D.(Caltech.)

Niky Kamran; B.Sc., M.Sc.(ULB), Ph.D.(Wat.), F.R.S.C. (*James McGill Professor*)

Johanna Neslehova; B.Sc., M.Sc.(Hamburg), Ph.D.(Oldenburg)

Adam Oberman; B.S.(Tor.), M.S., Ph.D.(Chic.)

Charles Roth; M.Sc.(McG.), Ph.D.(Hebrew)

David A. Stephens; B.Sc., Ph.D.(Nott.)

Valentino Tosatti; M.A., Ph.D. (Harv.)

John A. THamb

Associate Members

Xiao-Wen Chang (*Computer Science*)

Pierre R.L. Dutilleul (*Plant Science*)

Leon Glass (*Physiology*)

James A. Hanley (*Epidemiology and Biostatistics*)

Hamed Hatami (*Computer Science*)

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.(Texas-Austin)

Eliot Freid; B.S.(Cal Poly), M.S., Ph.D.(Calif. Tech.)

Andrew Granville; B.A., CASM(Camb.), Ph.D.(Qu.)

Adrian Iovita; B.S.(Bucharest), Ph.D.(Boston)

Dimitris Kouk

Faculty Lecturers

Sidney Trudeau; Ph.D.(McG.)

Alia Sajjad; Ph.D. (QAU)

11.13.22.7 Bachelor of Science (B.Sc.) - Minor Mathematics (24 credits)

The Minor may be taken in conjunction with any primary program in the Faculty of Science (other than programs in Mathematics). Students should declare their intention to follow the Minor Mathematics at the beginning of the penultimate year and should obtain approval for the selection of courses to fulfil the requirements for the Minor from the Departmental Chief Adviser (or delegate).

It is strongly recommended that students in the Minor program take MATH 323. The remaining credits may be freely chosen from the required and complementary courses for majors and honours students in Mathematics, with the obvious exception of courses that involve duplication of material. Alternatively, up to 6 credits may be allowed for appropriate courses from other hts he ob

MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
PHYS 362	(3)	Statistical Mechanics
PHYS 559	(3)	Advanced Statistical Mechanics
SOCI 504	(3)	Quantitative Methods 1

No more than 6 credits may be taken outside the Department of Mathematics and Statistics.

Further credits (if needed) may be freely chosen from the required and complementary courses for majors and honours students in Mathematics, with the obvious exception of courses that involve duplication of material.

11.13.22.9 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Mathematics (45 credits)

Program Prerequisites

Students entering the Core Science Component in Mathematics are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 45 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Selection of Courses

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following: MATH 317, MATH 318, MATH 327, MATH 328, MATH 335, MATH 340, MATH 407, MATH 417 and to complete the Computer Science Minor.

Students interested in probability and statistics are advised to take MATH 204, MATH 324, MATH 407, MATH 423, MATH 447, MATH 523, MATH 525.

Students interested in applied mathematics should take MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 407, MATH 417.

Students considering a career in secondary school teaching are advised to take MATH 318, MATH 328, MATH 338, MATH 339, MATH 346, MATH 348.

Students interested in careers in business, industry or government are advised to select courses from the following list:

MATH 317, MATH 319, MATH 327, MATH 329, MATH 407, MATH 417, MATH 423, MATH 430, MATH 447, MATH 523, MATH 525.

Required Courses (27 credits)

* Students may select either MATH 249 or MATH 316 but not both.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of complementary courses.

MATH 222**	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses (18 credits)

18 credits selected from the following list, with at least 6 credits selected from:

MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Mathematics

the remainder of the 18 credits to be selected from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 352	(1)	Problem Seminar
MATH 407	(3)	Dynamic Programming
MATH 410	(3)	Majors Project

Program Prerequisites

Students entering the Core Science Component in Statistics are normally expected to have completed the courses below or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 45 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

In addition, a student who has not completed the equivalent of MATH 203 on entering the program must consult an academic adviser and take MATH 203 in the first semester, increasing the total number of program credits from 45 to 48.

Required Courses (27 credits)

* Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of complementary courses.

** Students who have sufficient knowledge in a programming language do not need to take COMP 202, but must replace it by either COMP 250 or COMP 350.

***MATH 236 is an equi

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MATH 340	(3)	Discrete Mathematics
MATH 350	(3)	Honours Discrete Mathematics
MATH 417	(3)	Linear Optimization
MATH 430	(3)	Mathematical Finance

At least 9 credits selected from:

*Students can take either MATH 410 or MATH 420, but not both.

CCOM 314	(3)	Communicating Science
COMP 551	(4)	Applied Machine Learning
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 410*	(3)	Majors Project
MATH 420*	(3)	Independent Study
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(0)	Design of Experiments
MATH 598	(4)	Topics in Probability and Statistics

11.132211 Bachelor of Science (B.Sc.) - Major Mathematics (54 credits)

Program Prerequisites

Students entering the Major program are normally expected to have completed the following prerequisites:

MATH 317, MATH 319, MATH 327, MATH 329, MATH 407, MATH 417, MATH 423, MATH 430, MATH 447, MATH 523, MATH 525.

Required Courses (27 credits)

Note: Students who have done well in MATH 235 and MATH 242 should consider entering the Honours stream by registering in MATH 251 and MATH 255 instead of MATH 236 and MATH 243.

* Students may select either MATH 249 or MATH 316 but not both.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of complementary courses.

MATH 222**	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
		Ordinary Dif

MATH 417	(3)	Linear Optimization
MATH 423	(3)	Applied Regression
MATH 427	(3)	Statistical Quality Control
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis

If necessary, 6 additional credits in Mathematics or related disciplines selected in consultation with the Adviser.

11.132212 Bachelor of Science (B.Sc.) - Major Mathematics and Computer Science (72 credits)

Program Prerequisites

Students entering the Joint Major in Mathematics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 72 credits of courses in the program specification.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (54 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design
MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 315	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 340	(3)	Discrete Mathematics

Complementary Courses (18 credits)

9 credits from the set of courses recommended for a major or honours program in Mathematics.

9 credits selected from Computer Science courses at the 300 level or above (except COMP 364 and COMP 396) and ECSE 508.

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Students interested in discrete applied mathematics are advised to choose from these as part of their Complementary Courses: COMP 362, COMP 490, MATH 456, MATH 457, MATH 407, MATH 517, MATH 547, MATH 550, MATH 552, MATH 560.

3 credits selected from:

MATH 249	(3)	Honours Complex Variables
MATH 466	(3)	Honours Complex Analysis

at least 3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

0-6 credits from the following courses for which no Honours equivalent exists.

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 407	(3)	Dynamic Programming
MATH 430	(3)	Mathematical Finance
MATH 478	(3)	Computational Methods in Applied Mathematics

and the remainder of credits selected from:

COMP 362	(3)	Honours Algorithm Design
MATH 352	(1)	Problem Seminar
MATH 377	(3)	Honours Number Theory
MATH 398	(3)	Honours Euclidean Geometry
MATH 454++	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

++ Not open to students who have taken MATH 354.

All MATH 500-level courses.

Other courses with the permission of the Department.

11.132215 Bachelor of Science (B.Sc.) - Honours Mathematics (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents.

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/151 and MATH 140/141/222 are considered equivalent.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (48 credits)

45-48 credits

+ Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

* Not open to students who have taken MATH 354.

MATH 222+	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 358	(3)	Honours Advanced Calculus
MATH 454*	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (15 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254**	(3)	Honours Analysis 1

** It is strongly recommended that students take MATH 254.

0-6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning

MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 407	(3)	Dynamic Programming
MATH 430	(3)	Mathematical Finance

6-12 credits selected from:

COMP 250++	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

all MATH 500-level courses.

++ Students with limited programming experience should take COMP 202 or COMP 204 or COMP 208 or equivalent before COMP 250.

Students may select other courses with the permission of the Department.

11.132216 Bachelor of Science (B.Sc.) - Honours Probability and Statistics (63 credits)

The program provides training in probability and statistics, with a solid mathematical core, and basic training in computing. It prepares students for graduate school in probability, statistics, or data science. It also offers a path to a variety of careers in industry or government in the statistical sciences. With a suitable selection of complementary courses, students can focus on probability, mathematical statistics, applied statistics, actuarial science and finance, or data science. With satisfactory performance in an appropriate selection of courses, this program can lead to the professional accreditation A.Stat from the Statistical Society of Canada, which is regarded as the entry level requirement for a Statistician practicing in Canada.

Program Requirements (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending on whether or not they are required to take MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses or their equivalents:

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/151 and MATH 140/141/222 are considered equivalent.

Required Courses (28-31 credits)

* Students with limited programming experience should take COMP 202/204/208 or equivalent before COMP 250.

** Students select either MATH 251 or MATH 247, but not both.

*** Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

Note: Students with limited knowledge of computer programming should take COMP 202/204/208 or equivalent before COMP 250. U0 students may take COMP 202 as a Freshman Science course; new U1 students should take one of these courses as an elective in their first semester.

Note: Students who wish to take MATH 204 as a complementary course are strongly advised to take MATH 203 as a Freshman Science course or as an elective in their first semester.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGP

MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 358+	(3)	Honours Advanced Calculus
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 454	(3)	Honours Analysis 3
MATH 455++	(3)	Honours Analysis 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 475	(3)	Honours Partial Differential Equations
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 480	(3)	Honours Independent Study

and any 500-level course offered by the Department of Mathematics and Statistics not listed in Part III below.

Part III: at least 18 credits in probability and statistics selected as follows:

At least 8 credits selected from:

MATH 308	(3)	Fundamentals of Statistical Learning
MATH 524	(4)	Nonparametric Statistics
MATH 547	(4)	Stochastic Processes
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 587	(4)	Advanced Probability Theory 1
MATH 589	(4)	Advanced Probability Theory 2

At least 7 credits selected from:

+++ Students must take MATH 204 before taking MATH 357 or MATH 533. Moreover, it is advisable to take MATH 203 as a Freshman Science course or as an elective before taking MATH 204.

MATH 204+++	(3)	Principles of Statistics 2
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 558	(0)	Design of Experiments

0-3 credits from the following courses for which no Honours equiv

COMP 424	(3)	Artificial Intelligence
COMP 451	(3)	Fundamentals of Machine Learning
COMP 551	(4)	Applied Machine Learning
MATH 430	(3)	Mathematical Finance
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 594+++	(4)	Topics in Mathematics and Statistics
MATH 598+++	(4)	Topics in Probability and Statistics

11.132217 Bachelor of Science (B.Sc.) - Honours Statistics and Computer Science (79 credits)

This is a challenging program providing students with a solid training in both computer science and statistics suitable for entry into graduate school in either discipline.

Students may complete this program with a minimum of 76 credits or a maximum of 79 credits depending on whether or not they are exempt from taking COMP 202.

Program Prerequisites

Students entering the Joint Honours in Statistics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 76-79 credits of courses in the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (46 credits)

* Students who have sufficient knowledge in a programming language are not required to take COMP 202.

** Students take either MATH 251 or MATH 247, but not both.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design
MATH 235	(3)	Algebra 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Vector Calculus
MATH 251**	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 533	(4)	Regression and Analysis of Variance

Complementary Courses (33 credits)

18 credits in Mathematics selected as follows:

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

* It is strongly recommended that students take MATH 254.

3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

At least 8 credits selected from:

MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	()	Design of Experiments

The remaining Mathematics credits selected from:

** MATH 578 and COMP 540 cannot both be taken for program credit.

MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 454	(3)	Honours Analysis 3
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 545	(4)	Introduction to Time Series Analysis
MATH 578**	(4)	Numerical Analysis 1
MATH 587	(4)	Advanced Probability Theory 1
MATH 594	(4)	Topics in Mathematics and Statistics

15 credits in Computer Science selected as follows:

At least 6 credits selected from:

COMP 424	(3)	Artificial Intelligence
COMP 462	(3)	Computational Biology Methods
COMP 526	(3)	Probabilistic Reasoning and AI
COMP 540**	(4)	Matrix Computations
COMP 547	(4)	Cryptography and Data Security
COMP 551	(4)	Applied Machine Learning
COMP 552	(4)	Combinatorial Optimization
COMP 564	(3)	Advanced Computational Biology Methods and Research

COMP 566	(3)	Discrete Optimization 1
COMP 567	(3)	Discrete Optimization 2

The remaining Computer Science credits are selected from COMP courses at the 300 level or above excluding COMP 396.

11.132218 Bachelor of Science (B.Sc.) - Honours Mathematics and Computer Science (78 credits)

Students may complete this program with a minimum of 72 credits or a maximum of 78 credits depending if they are exempt from COMP 202, COMP 204, COMP 208 and/or MATH 222.

Program Prerequisites

Students must consult an Honours adviser in both departments to ensure that the

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254***	(3)	Honours Analysis 1

*** It is strongly recommended that students take MATH 254.

3 credits selected from:

MATH 248	(3)	Honours Vector Calculus
MATH 358	(3)	Honours Advanced Calculus

18 credits in Mathematics, at least 9 credits selected from:

+ Not open to students who have taken MATH 354.

MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 387	(3)	Honours Numerical Analysis
MATH 454+	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4

The remaining credits should be selected from honours courses and 500-level courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 364 and COMP 396. ECSE 508 may also be taken.

11.13.22:19 Mathematics and Statistics (MATH) Related Programs

11.13.22:191 Major in Biology and Mathematics

For more information, see [section 11.13.5: Biology \(BIOL\)](#) > [section 11.13.5.10: Bachelor of Science \(B.Sc.\) - Major Biology and Mathematics \(76 credits\)](#).

11.13.22:192 Major in Physiology and Mathematics

For more information, see [section 11.13.31: Physiology \(PHGY\)](#) > [section 11.13.31.6: Bachelor of Science \(B.Sc.\) - Major Physiology and Mathematics \(79 credits\)](#).

11.13.22:193 Honours Program in Mathematics and Physics

For more information, see [section 11.13.30: Physics \(PHYS\)](#) > [section 11.13.30.15: Bachelor of Science \(B.Sc.\) - Honours Mathematics and Physics \(81 credits\)](#).

11.13.23 Microbiology and Immunology (MIMM)

3693232 About Microbiology and Immunology

Microbiology is the study of microorganisms such as bacteria, viruses, unicellular eukaryotes, and parasites. Microorganisms play an important role in human and animal disease; food production (bread, cheese, wine); decay and spoilage; and contamination and purification of water and soil. Microbiologists study these tiny, self-replicating machines to understand the basic principles of life: growth, metabolism, cell division, control of gene expression, and response to environmental stimuli. Microbiologists are also concerned with controlling or harnessing microorganisms for the benefit of people, by isolating antibiotics or producing vaccines to protect against disease, and by developing and perfecting microorganisms for industrial uses.

Immunology is the study of the molecular and cellular basis of host resistance and immunity to external agents such as pathogenic microorganisms.

BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 390	(3)	SEA-PHAGES: Phage Discovery

CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222**	(4)	Introductory Organic Chemistry 2
MIMM 211	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity

One of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

U1, U2, or U3 Required Course (3 credits)

One of:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

U2 Required Courses (19 credits)

BIOC 311	(3)	Metabolic Biochemistry
MIMM 301	(1)	Scientific Writing Skills in MIMM
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 384	(3)	Molecular Microbiology Laboratory
MIMM 385	(3)	Laboratory in Immunology

U3 Required Course (3 credits)

MIMM 413	(3)	Parasitology
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U3 Complementary Courses (6 credits)

6 credits selected from:

MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

Complementary Courses (9 credits)

9 credits selected from:

* Students may select either ANAT 458 or BIOC 458, but not both.

AN	(4)	Introduction to Dynamic Histology
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BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 302	(3)	Introductory Organic Chemistry 3
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
		Introduction to Computer Science

(3)

BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222**	(4)	Introductory Organic Chemistry 2
MIMM 211	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity

One of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

U1, U2, or U3 Required Course (3 credits)

One of:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

U2 Required Courses (19 credits)

BIOC 311	(3)	Metabolic Biochemistry
MIMM 301	(1)	Scientific Writing Skills in MIMM
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 384	(3)	Molecular Microbiology Laboratory
MIMM 385	(3)	Laboratory in Immunology

U3 Required Courses (12 credits)

MIMM 413	(3)	Parasitology
MIMM 501D1*	(6)	Honours Research Project in Immunology
MIMM 501D2*	(6)	Honours Research Project in Immunology
MIMM 502D1*	(6)	Honours Research Project in Microbiology
MIMM 502D2*	(6)	Honours Research Project in Microbiology
MIMM 503*	(3)	Honours Research Project in Immunology 1
MIMM 504*	(6)	Honours Research Project in Immunology 2
MIMM 505*	(3)	Honours Research Project in Molecular Microbiology 1
MIMM 506*	(6)	Honours Research Project in Molecular Microbiology 2

*Please note for the 2020-2021 academic year students need to take both MIMM 503 and MIMM 504 OR MIMM 505 and MIMM 506. MIMM 501D1/D2 and MIMM 502D1/D2 will not be offered in 2020-2021.

U3 Complementary Courses (6 credits)

6 credits selected from:

MIMM 414	(3)	Advanced Immunology
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MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

Complementary Courses (6 credits)

6 credits selected from:

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 365	(3)	Cellular Trafficking
ANAT 458	(3)	Membranes and Cellular Signaling
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 404	(3)	Biophysical Methods in Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 520	(3)	Gene Activity in Development
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 302	(3)	Introductory Organic Chemistry 3
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 390	(3)	SEA-PHAGES: Phage Discovery
MIMM 391	(3)	SEA-PHAGES: Genome Annotation
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PSYT 455	(3)	Neurochemistry

11.13.23.7 Microbiology and Immunology (MIMM) Related Programs

11.13.23.7.1 Interdepartmental Honours in Immunology

For more information, see [section 11.13.18: Immunology](#).

This program is offered by the departments of Biochemistry, Microbiology and Immunology, and Physiology.

Students interested in immunology may choose between this Honours program and the Honours program of the Department of Microbiology and Immunology.

Details of this program may also be obtained from:

Dr. Monroe Cohen
Department of Physiology
McIntyre Medical Sciences Building, Room 1136
Telephone: 514-398-4342
Email: monroe.cohen@mcgill.ca

OR

Dr. Ciro Piccirillo
Department of Microbiology and Immunology
McGill University Health Centre, Glen Site
1001 Decarie Boulevard, Bloc E, Office EM23248
Telephone: 514-934-1934, ext. 76143
Email: ciro.piccirillo@mcgill.ca

11.13.24 Music for Science Students

11.13.24.1 Location

Strathcona Music Building
555 Sherbrooke Street West
Montreal QC H3A 1E3
Telephone: 514-398-4535
Fax: 514-398-1540
Website: mcgill.ca/music

11.13.24.2 About Music

The Schulich School of Music offers some programs that are open to students in the Faculty of Science. For more information, see [Schulich School of Music > Undergraduate > section 10.8: Browse Academic Units & Programs](#).

11.13.24.3 Music Faculty

Department of Music Research Chair

Chris Paul Harman; Ph.D.(Birm.)

Department of Performance Chair

Stéphane Lemelin; B.Mus., M.Mus.(Peabody), D.M.A.(Yale)

11.13.24.4 Music Related Programs

11.13.24.4.1 Minor in Musical Applications of Technology and Minor in Musical Science and Technology

Science students may apply for admission to:

- **Minor in Musical Applications of Technology** – see [Schulich School of Music > Undergraduate > Browse Academic Units & Programs > Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program > section 10.8.1.12: Bachelor of Music \(B.Mus.\) - Minor Musical Applications of Technology \(18 credits\)](#)
- **Minor in Musical Science and Technology** – see [Schulich School of Music > Undergraduate > Browse Academic Units & Programs > Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program > section 10.8.1.13: Bachelor of Music \(B.Mus.\) - Minor Musical Science and Technology \(18 credits\)](#)

Enrolment in Music Technology programs is highly restricted. Interested applicants must submit an [online application](#) via the Schulich School of Music website by May 15 of each academic year. Late applications will not be accepted and no students will be admitted in January. Successful applicants will be notified by email before the end of June. Registration will be limited to available lab space.

11.13.25 Neurology and Neurosurgery (NEUR)

11.13.25.1 Location

Montreal Neurological Institute and Hospital
3801 University Street, Room 140
Montreal QC H3A 2B4
Website: mcgill.ca/neuro

11.13.25.2 About Neurology and Neurosurgery

There are no B.Sc. programs in Neurology and Neurosurgery, but the course NEUR 310 *Cellular Neurobiology*, which is part of the Minor in Neuroscience, is taught by the Faculty of Science.

Students wishing to obtain more information about Neurology and Neurosurgery can refer to the Faculty of Medicine and Health Sciences' : [Neurology and Neurosurgery](#) page.

11.13.26 Neuroscience

11.13.26.1 Location

Director of Neuroscience
Dr. Monroe Cohen
Department of Physiology
McIntyre Medical Sciences Building, Room 1150
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6
Website: mcgill.ca/neuroscience

Interdisciplinary Programs Adviser

Ryan Bouma
Email: ryan.bouma@mcgill.ca
Telephone: 514-398-7330

11.13.26.2 About Neuroscience

Neuroscience is a multidisciplinary science devoted to understanding the nervous system. The brain is one of the most complex systems in the universe, and understanding how it functions is among the most challenging questions in science. Scientists are investigating the brain at many levels, from the molecules at synapses to complex forms of behaviour, and use methods of inquiry that are drawn from a number of disciplines, including molecular and cellular biology, physiology, behavioural sciences and cognitive psya5n&50gw15 86.s armd sr06 22 8.1 Tf1 0es0017rg0 M25 D28: T1llr06ffmg The nesro11j b 06s arpo, st06 S2i8ti6 Tnayein

11.13.26.3 Bachelor of Science (B.Sc.) - Minor Neuroscience (25 credits)

"Please note: this Minor is only available to students studying in the faculty of Science."

This Minor is intended to provide students with a basic understanding of how the nervous system functions. The Minor is composed of 24-25 credits: 9 required and 15-16 complementary. For the 15-16 complementary credits, at least 12-13 must be from outside the student's home department and at least 6 of the 12-13 must be at the 400 or 500 level.

All course selections for the Minor must be approved by the program's adviser, Ryan Bouma (Email: ryan.bouma@mcgill.ca; Office: Dawson Hall, Rm 405). Note 1: A maximum of 6-7 credits can be counted for both the student's primary program and for the Minor in Neuroscience.

Required Courses (9 credits)

BIOL 200	(3)	Molecular Biology
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2

Complementary Courses (16 credits)

15-16 credits selected as follows:

- At least 12-13 credits must be from outside the student's home department.
- At least 6 of the 12-13 credits have to be at the 400 or 500 level.

0-10 credits from the following list of 200- and 300-level courses:

* Students may select ANAT 212 or BIOC 212 or BIOL 201.

** Students may select either BIOL 306 or PHGY 314.

Note 2: Since CHEM 212 is a prerequisite/corequisite for NSCI 200 and BIOL 200, students must take CHEM 212 if they have not yet done so.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 306**	(3)	Neural Basis of Behaviour
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 389	(3)	Laboratory in Neurobiology
CHEM 212	(4)	Introductory Organic Chemistry 1
LING 390	(3)	Neuroscience of Language
NEUR 310	(3)	Cellular Neurobiology
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314**	(3)	Integrative Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain

BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology Basic and Clinical

MATH 140*	(3)	Calculus 1
MATH 141**	(4)	Calculus 2
MATH 150*	(4)	Calculus A
MATH 151**	(4)	Calculus B
PHYS 101***	(4)	Introductory Physics - Mechanics
PHYS 102+++	(4)	Introductory Physics - Electromagnetism
PHYS 131***	(4)	Mechanics and Waves
PHYS 142+++	(4)	Electromagnetism and Optics

Core Required Courses (20 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
NSCI 400D1	(.5)	Neuroscience Seminar
NSCI 400D2	(.5)	Neuroscience Seminar
PSYC 311	(3)	Human Cognition and the Brain

Complementary Courses (45 credits)

9 core credits selected as follows:

3 credits from:

BIOL 373	(3)	Biometry
MATH 324	(3)	Statistics
PSYC 305	(3)	Statistics for Experimental Design

3 credits from:

COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences

3 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

BIOL 309	(3)	Mathematical Models in Biology
MATH 222	(3)	Calculus 3

Streams

15 credits selected from one of the following streams:

A. Cell and Molecular Stream

15 credits selected as follows:

9 credits as follows:

BIOC 311	(3)	Metabolic Biochemistry
BIOL 202	(3)	Basic Genetics
PHGY 311	(3)	Channels, Synapses and Hormones

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHAR 300	(3)	Drug Action

B. Neurophysiology/Neural Computation Stream

15 credits selected as follows:

3 credits as follows:

PHGY 311	(3)	Channels, Synapses and Hormones
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3 credits as follows:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

6 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 309	(3)	Mathematical Models in Biology
COMP 206**	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
MATH 222	(3)	Calculus 3
MA	(3)	Linear Algebra

C. Cognitive/Behavioural Stream

15 credits selected as follows:

6 credits as follows:

PSYC 213	(3)	Cognition
PSYC 318	(3)	Behavioural Neuroscience 2

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

6 credits from:

ANAT 321	(3)	Circuitry of the Human Brain
PSYC 302	(3)	The Psychology of Pain
PSYC 317	(3)	Genes and Behaviour
PSYC 342	(3)	Hormones and Behaviour

Other Complementary Courses

(21-23 credits)

3-16 credits from:

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 389	(3)	Laboratory in Neurobiology
NSCI 410	(6)	Independent Research 1
NSCI 420D1	(4.5)	Independent Research 2
NSCI 420D2	(4.5)	Independent Research 2

The remainder of the credits should be taken from the following lists. At least 15 of the 21-23 credits must be at the 400- or 500-level, which could include the above NSCI 410 or NSCI 420D1/NSCI 420D2 research courses:

200- and 300-level courses:

* Students take either BIOL 201 OR BIOC 212, but not both.

** Students take either COMP 206 or COMP 250, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 320	(3)	Evolution of Brain and Behaviour
CHEM 222	(4)	Introductory Organic Chemistry 2
COMP 206**	(3)	Introduction to Software Systems

COMP 250**	(3)	Introduction to Computer Science
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
NEUR 310	(3)	Cellular Neurobiology
PHAR 300	(3)	Drug Action
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience
PSYC 213	(3)	Cognition
PSYC 302	(3)	The Psychology of Pain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

400- and 500-level courses:

BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BMDE 519	(3)	Biomedical Signals and Systems
COMP 546	(4)	Computational Perception
MATH 437	(3)	Mathematical Methods in Biology
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
NEUR 503	(3)	Computational Neuroscience
NEUR 507	(3)	Topics in Radionuclide Imaging
NEUR 550	(3)	Free Radical Biomedicine
PHAR 562	(3)	Neuropharmacology
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 513	(3)	Translational Immunology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Neuroscience

PSYC 433	(3)	Cognitive Science
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.26.5 Bachelor of Science (B.Sc.) - Honours Neuroscience (74 credits)

The Honours program is intended for students who are interested in laboratory-based research and in acquiring a foundation in each of the 3 streams of the Neuroscience Major Program (cell and molecular; neurophysiology and computational; and cognition and behaviour). Students are admitted to the program after one year in a major.

Applicants must have taken a minimum of 27 graded credits in their U1 year, must have a CGPA of at least 3.5, and must have obtained minimum grades of B+ in both NSCI 200 and NSCI 201, as well as a minimum grade of C in BIOL 200, BIOC 212 or BIOL 201, and CHEM 212. Additional requirements for applying are provided on the Neuroscience website: (www.mcgill.ca/neuroscience). Meeting the minimum requirements does not guarantee admission to the Honours Neuroscience program.

To graduate from the program, students must have a CGPA of 3.30 and a minimum grade of B+ in NCSI 300, NCSI 400, and NCSI 430D1/D2.

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.30, and a minimum grade of B+ in NSCI 300, NSCI 400, and NSCI 430.

Required Courses (38 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for Honours Neuroscience.

BIOC 311	(3)	Metabolic Biochemistry
BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
NSCI 400D1	(.5)	Neuroscience Seminar
NSCI 400D2	(.5)	Neuroscience Seminar
NSCI 430D1	(4.5)	Honours Research Project
NSCI 430D2	(4.5)	Honours Research Project
PHGY 311	(3)	Channels, Synapses and Hormones
PSYC 311	(3)	Human Cognition and the Brain
PSYC 318	(3)	Behavioural Neuroscience 2

Complementary Courses (36 credits)

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

PHAR 300	(3)	Drug Action
PHGY 210	(3)	Mammalian Physiology 2
PHGY 314	(3)	Integrative Neuroscience
PSYC 213	(3)	Cognition
PSYC 302	(3)	The Psychology of Pain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 342	(3)	Hormones and Behaviour

400- and 500-level courses:

BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BMDE 519	(3)	Biomedical Signals and Systems
COMP 546	(4)	Computational Perception
MATH 437	(3)	Mathematical Methods in Biology
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
NEUR 503	(3)	Computational Neuroscience
NEUR 507	(3)	Topics in Radionuclide Imaging
NEUR 550	(3)	Free Radical Biomedicine
PHAR 562	(3)	Neuropharmacology
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 513	(3)	Translational Immunology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition

PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.27 Nutrition (NUTR)

11.13.27.1 Location

School of Human Nutrition
 Macdonald-Stewart Building, Room MS2-045
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Website: mcgill.ca/nutrition

11.13.27.2 About Nutrition

The School of Human Nutrition offers a **Minor in Human Nutrition** which can be taken by Science students; see [Faculty of Agricultural and Environmental Sciences > Undergraduate > Overview of Programs Offered > section 2.5.6: Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\) \(Overview\)](#).

NUTR 307 is considered as a course taught by the Faculty of Science.

11.13.28 Pathology (PATH)

11.13.28.1 Location

Department of Pathology
 Duff Medical Building, B wing
 3775 University Street
 Montreal QC H3A 2B4
 Telephone: 514-398-3045
 Website: mcgill.ca/pathology

11.13.28.2 About Pathology

Pathology is a branch of medical science that involves the study and diagnosis of disease through the examination of surgically removed organs, tissues (biopsy samples), bodily fluids, and in some cases the whole body (autopsy). Aspects of a bodily specimen that may be considered include its gross anatomical make up, appearance of the cells using immunology (immunofluorescence, immunohistochemistry), and the use of various stains to highlight specific cellular components.

11.13.29.2 About Pharmacology and Therapeutics

Pharmacology is the science that deals with all aspects of drugs and their interactions with living organisms. Thus, it involves the physical and chemical properties of drugs, their biochemical and physiological effects, mechanisms of action, pharmacokinetics, and therapeutic and other uses. Since the word “drug” encompasses all chemical substances that produce an effect on living cells, pharmacology is evidently a very extensiv

Professors

Jacquetta Trasler; M.D.,C.M., Ph.D.(McG.)

Associate Professors

Jason Chaim Tanny; Ph.D.(Harv.)

Lisa Maria Munter; Ph.D. (Berlin)

Bastien Castagner; Ph.D.(Col.)

Jean-François Trempe; D.Phil.(Oxf.)

Assistant Professors

Maureen McKeague; Ph.D.(Carleton)

Ajitha Thanabalasuriar; PhD. (McG.)

Associate Members

Carolyn Baglolle; M.Sc.(PEI), Ph.D.(Calg.)

Serge Gauthier; M.D. (Montr.)Ph.D. (McG.)

Nathan Luedtke; Ph.D.(Calif.-San Diego)

Koren K. Mann; Ph.D. (Boston)

Stephane Laporte; Ph.D.(Sher.)

Stanley Nattel; B.Sc., M.D., C.M.(McG.)

Cristian O'Flaherty; Ph.D.(McG.)

Pedro Rosa-Neto; M.D.(Lisbon), Ph.D.(Aarhus)

Simon Rousseau; Ph.D.(Laval)

Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

Adjunct Professors

Bruce Allen; Ph.D.(Br. Col.)

Sylvain Chemtob; M.D.(Montr.), Ph.D.(McG.)

Yves De Koninck; Ph.D.(McG.)

Greg FitzHarris; Ph.D. (UCL; UK)

Jean-Sebastien Joyal; M.D., Ph.D.(McG.)

Thomas Sanderson; Ph.D.(Br. Col.)

Fabrice Le Boeuf; Ph.D. (Laval)

Laura Stone; Ph.D. (Minn.)

Affiliate Members

Mathieu Boucher; Ph.D.(Montr.)

Lionel Breton; Ph.D.(Paris V)

Lorella Garofalo; Ph.D.(McG.)

John Gillard; Ph.D.(Tasmania)

Joseph Mancini; M.Sc., Ph.D.(McG.)

Stanley Joschke; M.D., Ph.D.(McG.)

Karen Meerovitch; Ph.D.(McG.)

Christopher Wright; M.D (Harvard), Ph.D. (Amsterdam).

11.13.29.4 Bachelor of Science (B.Sc.) - Minor Pharmacology (24 credits)

The Minor Pharmacology is intended for students registered in a complementary B.Sc. program who are interested in a focused introduction to specialized topics in pharmacology to prepare them for professional schools, graduate education, or entry into jobs in industry or research institutes.

11.13.29.5 Bachelor of Science (B.Sc.) - Major Pharmacology (67 credits)

This program incorporates extensive studies in Pharmacology with a strong component of related biomedical sciences, providing a solid preparation for employment opportunities or for entry into graduate or professional training programs. Students must consult the Student Affairs Coordinator upon entering the program and every year thereafter to verify courses and progress.

U1 Required Courses (24 credits)

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
PHAR 200	(1)	Introduction to Pharmacology 1
PHAR 201	(1)	Introduction to Pharmacology 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

* Students who have taken the equivalent of CHEM 212, CHEM 222, and/or MATH 203 in CEGEP (as defined at: <http://www.mcgill.ca/students/transferecredit/prospective/cegep>) are exempt and may not take these courses at McGill. Students must replace these credits with appropriate complementary course credits to satisfy the total credit requirements for their degree.

U2 Required Courses (16 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology

Complementary Courses (27 credits)

15 credits selected as follows:

3 credits, one of (highly recommended in Year 1):

ANAT 212	(3)	Molecular Mechanisms of Cell Function
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of (usually in Year 2):

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3 credits, one of (usually in Year 2):

BIOL 373	(3)	Biometry
COMP 204	(3)	Computer Programming for Life Sciences
MATH 203*	(3)	Principles of Statistics 1

PSYC 204 (3) Introduction to Psychological Statistics

3 credits, one of (usually in Year 3):

PHAR 503 (3) Drug Discovery and Development 1

PHAR 505 (3) Structural Pharmacology

3 credits, one of (usually in Year 3):

PHAR 562 (3) Neuropharmacology

PHAR 563 (3) Endocrine Pharmacology

12 credits selected from the following upper-level science courses:

Committee approval is required to substitute an upper-level science course not in the list below.

PHAR 599D1 and PHAR 599D2 are taken together.

ANAT 321 (3) Circuitry of the Human Brain
ANAT 322 (3) Neuroendocrinology
ANAT 365 (3) Cellular Trafficking
ANAT 381*** (3) Experimental Embryology
ANAT 458* (3) Membranes and Cellular Signaling
BIEN 510 (3) Engineered Nanomaterials for Biomedical Applications
BIOC 312 (3) Biochemistry of Macromolecules
BIOC 450 (3) Protein Structure and Function
BIOC 454 (3) Nucleic Acids
BIOC 458* (3) Membranes and Cellular Signaling
BIOC 470** (3) Lipids and Lipoproteins in Disease
BIOL 300 (3) Molecular Biology of the Gene
BIOL 303 (3) Developmental Biology
BIOL 306 (3) Neural Basis of Behaviour
BIOL 314 (3) Molecular Biology of Cancer
BIOL 370 (3) Human Genetics Applied
BIOT 505 (3) Selected Topics in Biotechnology
CHEM 302 (3) Introductory Organic Chemistry 3
CHEM 334 (3) Advanced Materials
CHEM 462*** (3) Green Chemistry
CHEM 482 (3) Organic Chemistry: Natural Products
CHEM 502 (3) Advanced Bio-Organic Chemistry
CHEM 503 (3) Drug Discovery
CHEM 504 (3) Drug Design
CHEM 522 (3) Stereochemistry
CHEM 552 (3) Physical Organic Chemistry
EXMD 401 (3) Physiology and Biochemistry Endocrine Systems
EXMD 504 (3) Biology of Cancer

EXMD 509**	(3)	Gastrointestinal Physiology and Pathology
EXMD 511	(3)	Joint Venturing with Industry
HGEN 400**	(3)	Genetics in Medicine
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
MIMM 466+	(3)	Viral Pathogenesis
NEUR 310	(3)	Cellular Neurobiology
PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 508	(3)	Drug Discovery and Development 3
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHAR 565	(3)	Epigenetic Drugs and Targets
PHAR 599D1	(3)	Pharmacology Research Project
PHAR 599D2	(3)	Pharmacology Research Project
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 425***	(3)	Analyzing Physiological Systems
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PPHS 501	(3)	Population Health and Epidemiology
PSYC 302	(3)	The Psychology of Pain
PSYC 305**	(3)	Statistics for Experimental Design
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317**	(3)	Genes and Behaviour
PSYC 318**	(3)	Behavioural Neuroscience 2
PSYT 301	(3)	Issues in Drug Dependence
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
REDM 410	(3)	Writing Research Articles

Note: * Students may take either ANAT 458 or BIOC 458

** Access to these courses is not guaranteed

*** Open to students who have the Prerequisites

+ Access to these courses is not guaranteed. Open to students who have the Pre-requisites

11.13.29.6 Bachelor of Science (B.Sc.) - Honours Pharmacology (76 credits)

The Honours program is designed as a preparation for graduate studies and research. In addition to the strong training provided by the Major program, it requires students to have direct research experience in a chosen area during their final year of study. Acceptance into the Honours program takes place in the Winter term of U2 and requires a CGPA of 3.50. Students who wish to enter the Honours program should follow the Major program; those who satisfactorily complete the first three terms with a CGPA of at least 3.50 and a mark of B+ or higher in core Pharmacology courses (PHAR 300, PHAR 301, and PHAR 303) are eligible for admission. Applications can be obtained from the office of the Department of Pharmacology in the McIntyre Medical Building or on the Departmental website.

U1 Required Courses (24 credits)

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
PHAR 200	(1)	Introduction to Pharmacology 1
PHAR 201	(1)	Introduction to Pharmacology 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

* Students who have taken the equivalent of CHEM 212, CHEM 222, and/or MATH 203 in CEGEP (as defined at: <http://www.mcgill.ca/students/transfercrredit/prospective/cegep>) are exempt and may not take these courses at McGill. Students must replace these credits with appropriate complementary course credits to satisfy the total credit requirements for their degree.

U2 Required Courses (16 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology

U3 Required Courses (6 credits)

PHAR 598D1	(3)	Honours Pharmacology Research Project
PHAR 598D2	(3)	Honours Pharmacology Research Project

Complementary Courses (30 credits)

15 credits selected as follows:

3 credits, one of (T h12 526.681 Tm(empt -these 125d 0 ed 9 347.003 Tm02.12*dits, one of Y9 347.003 Tm0)Tj07dits, one of 0 52 :9 347.003 Tm(Honour254)Tj4log

PSYC 204 (3) Introduction to Psychological Statistics

3 credits, one of (usually in Year 3):

PHAR 503 (3) Drug Discovery and Development 1

PHAR 505 (3) Structural Pharmacology

3 credits, one of (usually in Year 3):

PHAR 562 (3) Neuropharmacology

PHAR 563 (3) Endocrine Pharmacology

15 credits selected from the following upper-level science courses:

Committee approval is required to substitute an upper-level science course not in the list below.

ANAT 321 (3) Circuitry of the Human Brain

ANAT 322 (3) Neuroendocrinology

ANAT 365 (3) Cellular Trafficking

ANAT 381*** (3) Experimental Embryology

ANAT 458* (3) Membranes and Cellular Signaling

BIEN 510 (3) Engineered Nanomaterials for Biomedical Applications

BIOC 312 (3) Biochemistry of Macromolecules

BIOC 450 (3) Protein Structure and Function

BIOC 454 (3) Nucleic Acids

BIOC 458* (3) Membranes and Cellular Signaling

BIOC 470** (3) Lipids and Lipoproteins in Disease

BIOL 300 (3) Molecular Biology of the Gene

BIOL 303 (3) Developmental Biology

BIOL 306 (3) Neural Basis of Behaviour

BIOL 314 (3) Molecular Biology of Cancer

BIOL 370 (3) Human Genetics Applied

BIOT 505 (3) Selected Topics in Biotechnology

CHEM 302 (3) Introductory Organic Chemistry 3

CHEM 334 (3) Advanced Materials

CHEM 462*** (3) Green Chemistry

CHEM 482 (3) Organic Chemistry: Natural Products

CHEM 502 (3) Advanced Bio-Organic Chemistry

CHEM 503 (3) Drug Discovery

CHEM 504 (3) Drug Design

CHEM 522 (3) Stereochemistry

CHEM 552 (3) Physical Organic Chemistry

EXMD 401 (3) Physiology and Biochemistry Endocrine Systems

EXMD 504 (3) Biology of Cancer

EXMD 509** (3) Gastrointestinal Physiology and Pathology

EXMD 511	(3)	Joint Venturing with Industry
HGEN 400**	(3)	Genetics in Medicine
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
MIMM 466+	(3)	Viral Pathogenesis
NEUR 310	(3)	Cellular Neurobiology
PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease

Website: physics.mcgill.ca

11.13.30.2 About Physics

Physics is in many ways the parent of the other natural sciences and its discoveries and laws continually affect their development. Its range and scope extend

11.13.30.4 Science Freshman Program

Students entering McGill with a Quebec CEGEP profile in Science will normally begin their programs in Physics with courses at the 200 level.

Students without this profile should normally take courses PHYS 131 and PHYS 142 if they have previously taken physics at the high school level and should be taking differential calculus concurrently with PHYS 131 and integral calculus concurrently with PHYS 142. Those students who have not previously taken ph

Professors

D.H. Ryan; B.A., Ph.D.(Dub

Associate Members

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

11.13.30.6 Bachelor of Science (B.Sc.) - Minor Physics (18 credits)

The 18-credit Minor permits no overlap with an

Required Courses (36 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra

MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

Required Courses

(48-51 credits)

* Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222, reducing the total number of program credits from 63 to 60.

** Students coming into the program with sufficient knowledge of computer programming may replace COMP 208 with PHYS 512 or another 3-credit COMP course at the 200 level or above after consulting with an adviser.

COMP 208**	(3)	Computer Programming for Physical Sciences and Engineering
MATH 222*	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus

PHYS 512	(3)	Computational Physics with Applications
PHYS 519	(3)	Advanced Biophysics
PHYS 521	(3)	Astrophysics

Note: It is possible for students to transfer from the Major to the Honours program after U1 year if they have passed all the 200-level required courses listed above and MATH 314 and MATH 315 with a C or better, and obtained a cumulative GPA of 3.5 or better in these courses. The written permission of an adviser is required for this change of program. The missing MATH 249 and PHYS 260 from the U1 Honours year should be taken in U2.

11.1330.10 Bachelor of Science (B.Sc.) - Major Physics: Biological Physics (82 credits)

The B.Sc. Major Physics: Biological Physics program keeps a strong core of foundational physics and specializes through courses in biology, mathematics, physiology, computer science, and chemistry. Complementary courses provide background in molecular and cell biology, computer science, and organic chemistry, whereas introductory and advanced biophysics courses offered by the Physics Department as integrative courses. This program provides students with the skills necessary to continue on to graduate studies in biophysics/biological physics, or for research careers in hospital, industrial, or university settings.

Required Courses (63 credits)

Bio-Physical Science Core (27 credits)

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(3) (3)	Introductory Organic Chemistry 1
MATH 222*	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
PHYS 319	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications

* Students who have taken the equivalent of CHEM 212 or MATH 222 can make up the credits with complementary 3 or 4 credits courses in consultation with the program adviser.

Biology and Mathematics (6 credits)

BIOL 202	(3)	Basic Genetics
MATH 314	(3)	Advanced Calculus

Physics (30 credits)

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
EY 314 PHYS 241	(3)	Signal Processing

(18-19 credits)

3 credits selected from:

COMP 202	(3)	Foundations of Programming
COMP 250	(3)	Introduction to Computer Science

3 credits selected from:

PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics

3 credits selected from:

PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 439	(3)	Majors Laboratory in Modern Physics

3 credits selected from:

CHEM 514	(3)	Biophysical Chemistry
MATH 437	(3)	Mathematical Methods in Biology
PHGY 425	(3)	Analyzing Physiological Systems
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 447	(3)	Applications of Quantum Mechanics

6 to 7 credits selected from:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 316	(3)	Biomembranes and Organelles
BIOL 551	(3)	Principles of Cellular Control

11.1330.11 Bachelor of Science (B.Sc.) - Major Physics and Geophysics (69 credits)

This joint program in Physics and Geophysics provides a firm basis for graduate work in geophysics and related fields as well as a sound preparation for those who wish to embark on a career directly after the B.Sc.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

Required Courses (57 credits)

EPSC 231	(3)	Field School 1
EPSC 240	(3)	Geology in the Field
EPSC 303	(3)	Structural Geology
EPSC 320	(3)	Elementary Earth Physics
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MA	(3)	Ordinary Differential Equations

PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 404	(3)	Climate Physics
PHYS 449	(3)	Majors Research Project
PHYS 512	(3)	Computational Physics with Applications

11.1330.12 Bachelor of Science (B.Sc.) - Major Physics and Computer Science (66 credits)

The Major Physics and Computer Science is designed to give motivated students the opportunity to combine the two fields in a way that will distinguish them from the graduates of either field by itself. The two disciplines complement each other, with physics providing an analytic problem-solving outlook and basic understanding of nature, while computer science enhances the ability to make practical and marketable applications, in addition to having its own theoretical interest. Graduates of this program may be able to present themselves as being more immediately useful than a pure physics major, but with more breadth than just a programmer. They will be able to demonstrate their combined expertise in the Special Project course which is the centrepiece of the final year of the program.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (21 credits)

COMP 250	(3)	Introduction to Computer Science
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (24 credits)

COMP 206	(3)	Introduction to Software Systems
COMP 251	(3)	Algorithms and Data Structures

MATH 247	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Vector Calculus
MATH 249	(3)	Honours Complex Variables
MATH 325	(3)	Honours Ordinary Differential Equations

PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics

11.13.30.14 Bachelor of Science (B.Sc.) - Honours Physics: Biological Physics (82 credits)

The B.Sc. Honours Physics: Biological Physics program keeps a strong core of foundational physics and specializes through courses in biology, mathematics, physiology, computer science, and chemistry. The Honours program offers a more rigorous preparation, with additional research experience, for students with a strong interest in biophysics. In the final year, students will have an opportunity to carry out a research project within a biophysics lab in the department. This program provides a very strong foundation for students wishing to pursue graduate studies in biophysics, as well as for research careers in industrial, hospital, or academic laboratory settings.

Required Courses (63 credits)

Bio-Physical Sciences Core (24 credits)

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
MATH 247	(3)	Honours Applied Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
PHYS 319	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications

* Students who have taken the equivalent of CHEM 212 can make up the credits with complementary 3 or 4 credit courses in consultation with the program adviser.

Biology and Mathematics (6 credits)

BIOL 202	(3)	Basic Genetics
MATH 248	(3)	Honours Vector Calculus

Physics (33 credits)

PHYS 241	(3)	Signal Processing
PHYS 251	(3)	Honours Classical Mechanics 1
PHYS 253	(3)	Thermal Physics
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 346	(3)	Majors Quantum Physics
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 459D1	(3)	Honours Research Thesis
PHYS 459D2	(3)	Honours Research Thesis
PHYS 519	(3)	Advanced Biophysics

Complementary Courses

PHYS 359 (3) Honours Laboratory in Modern Physics 1

Complementary Courses (18 credits)

U1 Complementary Course (3 credits)

MATH 247 (3) Honours Applied Linear Algebra
MATH 251 (3) Honours Algebra 2

U2 Complementary Courses (3 credits)

MATH 242 (3) Analysis 1
MATH 254** (3) Honours Analysis 1

** It is strongly recommended that students take MATH 254.

U3 Complementary Courses (12 credits)

12 credits are selected as follows:

3 credits from:

MATH 455 (3) Honours Analysis 4
MATH 456 (3) Honours Algebra 3

6 credits selected from:

PHYS 404 (3) Climate Physics
PHYS 432 (3) Physics of Fluids
PHYS 459D1* (3) Honours Research Thesis
PHYS 459D2* (3) Honours Research Thesis
PHYS 479 (3) Physics Research Project
PHYS 512 (3) Computational Physics with Applications
PHYS 514 (3) General Relativity
PHYS 519 (3) Advanced Biophysics
PHYS 521 (3) Astrophysics
PHYS 551 (3) Quantum Theory
PHYS 557 (3) Nuclear Physics
PHYS 558 (3) Solid State Physics
PHYS 559 (3) Advanced Statistical Mechanics
PHYS 562 (3) Electromagnetic Theory
PHYS 567 (3) Particle Physics

* Note(3))gul7

PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 457	(3)	Honours Quantum Physics 2
PHYS 558	(3)	Solid State Physics

Complementary Courses (12 credits)

(with at least 3 credits in Chemistry and 3 credits in Physics)

3 credits selected from:

CHEM 593	(3)	Statistical Mechanics
PHYS 559	(3)	Advanced Statistical Mechanics

9 credits selected from the list below:

Note: PHYS 459D1 and PHYS 459D2 are taken together.

CHEM 480D1	(1.5)	Undergraduate Research Project 2
CHEM 480D2	(1.5)	Undergraduate Research Project 2
CHEM 505	(3)	Computer Modeling of Molecules and Materials
	(3)	Chemistry of Inorganic Materials

COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 350	(3)	Numerical Computing
MATH 240	(3)	Discrete Structures
MATH 247	(3)	Honours Applied Linear Algebra
MATH 248*	(3)	Honours Vector Calculus
MATH 249	(3)	Honours Complex Variables
MATH 314*	(3)	Advanced Calculus
MATH 325	(3)	Honours Ordinary Differential Equations
PHYS 241	(3)	Signal Processing
PHYS 251	(3)	Honours Classical Mechanics 1
PHYS 253	(3)	Thermal Physics
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 362	(3)	Statistical Mechanics
PHYS 457	(3)	Honours Quantum Physics 2

Complementary Courses (15 credits)

At least 6 of the 15 complementary credits must come from a course at the 400- or 500-level (excluding COMP 400 and PHYS 479), and of these at least 3 must be from a COMP course.

3 or 4 credits selected from:

COMP 400	(4)	Project in Computer Science
PHYS 479	(3)	Physics Research Project

6 or 7 credits selected from:

COMP 303	(3)	Software Design
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design

Any COMP course at the 400- or 500-level (excluding COMP 400) (3 or 4 credits)

At least 4 credits selected from:

MATH 323	(3)	Probability
MATH 340	(3)	Discrete Mathematics
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 359	(3)	Honours Laboratory in Modern Physics 1
PHYS 404	(3)	Climate Physics

PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics

Any number of PHYS courses at the 500 level (3 credits each)

Any number of COMP courses at the 400 or 500-level (excluding COMP 400) (3 or 4 credits each)

11.13.30.18 Physics (PHYS) Related Programs

11.13.30.18.1 Major in Atmospheric Science and Physics

See [section 11.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#). This program provides a firm basis for graduate work in atmospheric science and related fields as well as a sound preparation for those who wish to embark on a career directly after the B.Sc. Students should consult undergraduate advisers in both departments.

11.13.30.18.2 Major in Physiology and Physics

See [section 11.13.31: Physiology \(PHGY\)](#). This program provides a firm basis for graduate work in bio-physics and other interdisciplinary fields involving the physical and biological sciences.

11.13.31 Physiology (PHGY)

11.13.31.1 Location

McIntyre Medical Sciences Building, Room 1021
 3655 Promenade Sir-William-Osler
 Montreal QC H3G 1Y6
 Telephone: 514-398-4316
 Website: mcgill.ca/physiology

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11.13.31.2 About Physiology

Physiology has its roots in many of the basic sciences including biology, chemistry, mathematics, and physics, and overlaps with other biomedical sciences such as anatomy, biochemistry, pathology, pharmacology, psychology, and biomedical engineering. Physiology is one of the prime contributors of basic scientific knowledge to the clinical medical sciences.

Members of the Department of Physiology at McGill are engaged in studies dealing with molecules, single cells, or entire systems in a variety of vertebrates, including humans. A wide range of interest and expertise is represented, including:

- cardiovascular;
- respiratory;
- gastrointestinal and renal physiology;
- the physiology of exercise;
- neurophysiology;
- endocrinology;
- immunology;
- biophysics;
- biomathematics.

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The specified U1 courses are identical for all programs except the Joint Major programs in Physiology and Physics, Physiology and Mathematics, and the Joint Honours program in Immunology, and thus afford students maximal flexibility before deciding on a particular program to follow in U2 and U3.

All **new students** to the Department, Freshman and CEGEP, must contact the Student Affairs Officer at 514-398-3689 for advising; further information is available on the [Physiology website](#).

Returning students are encouraged to consult with the Student Affairs Officer regularly throughout the year; in particular, at the beginning of their final year to ensure they have met all departmental requirements.



Please Note: Complementary courses are not electives.

The difference between complementary courses and required courses is that complementary courses are defined as offering an element of choice, however small that choice may be. Students may choose from the two (or more) courses specified within complementary course segments of a program description, but **ONLY** from those. For further information, refer to [University Regulations & Resources](#) > Undergraduate > Registration > [section 1.3.2: Course Information and Regulations](#).

11.13.31.3 Physiology Faculty

Chair

John White

Graduate Program Director

Alvin Shrier

Emeritus Professors

Thomas M.S. Chang; B.Sc., M.D.,C.M., Ph.D.(McG.), F.R.C.P.(C)

Leon Glass; B.S.(Brooklyn Coll.), Ph.D.(Chic.) (*Rosenfeld Professor of Medicine*) (*joint appt. with Medicine*)

Kresimir Krnjevic; O.C., B.Sc., Ph.D., M.B., Ch.B.(Edin.), F.R.S.C. (*In Memoriam*)

Wayne S. Lapp; M.S.A.(Tor.), Ph.D.(McG.)

Mortimer Levy; B.Sc., M.D.,C.M.(McG.), F.R.C.P.(C) (*joint appt with Medicine*)

Michael Mackey; B.A., Ph.D.(Wash.) (*Joseph Morley Professor of Physiology*)

George Mandl; B.Sc.(C'dia), Ph.D.(McG.)

Geoffrey Melvill Jones; B.A., M.A., M.B., B.Ch., M.D.(Cant.)

Joseph Milic-Emili; M.D.(Milan) (*joint appt with Medicine*)

Canio Polosa; M.D., Ph.D.(McG.)

Douglas G.D. Watt; M.D., Ph.D.(McG.)

Associate Professor (Post-Retirement)

Ann Wechsler; B.A.(Tor.), M.Sc., Ph.D.(McG.)

Professors

Maurice Chacron; B.Sc., Ph.D.(Ott.)

Monroe W. Cohen; B.Sc., Ph.D.(McG.)

Ellis J. Cooper; B.Eng.(Sir G. Wms.), M.Sc.(Surr.), Ph.D.(McM.)

Phil Gold; C.C., B.Sc., M.Sc., Ph.D., M.D.,C.M.(McG.), F.R.C.P.(C), F.R.S.C. (*Douglas G. Cameron Professor of Medicine*) (*joint appt. with Medicine*)

John Hanrahan; B.Sc.(Dal.), Ph.D.(Br. Col.)

David Goltzman; B.Sc., M.D.,C.M.(McG.) (*Antoine G. Massabki Professor of Medicine*) (*joint appt. with Medicine*)

Steve Lomber; B.Sc.(Roch.), Ph.D.(Boston)

Gergely Lukacs; M.D., Ph.D.(Simmelweis)

Sheldon Magder; M.D.(Tor.) (*joint appt. with Medicine*)

John Orlowski; B.Sc.(McG.), M.Sc., Ph.D.(Qu.) (*James McGill Professor*)

Alvin Shrier; B.Sc.(C'dia), Ph.D.(Dal.) (*Hosmer Professor of Physiology*)

Professors

John White; B.Sc., M.Sc.(Car.), Ph.D.(Harv.) (*joint appt. with Medicine*)

Associate Professors

Claire Brown; B.Sc.(St. Mary's), Ph.D.(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.)

Michael Guevara; B.Sc., B.Eng., Ph.D.(McG.)

Suresh Krishna; Ph.D. (New York University)

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11.13.31.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physiology (50 credits)

Required Courses (38 credits)

* Students who have taken CHEM 212 and/or CHEM 222 in CEGEP are exempted and must replace these credits with 4 or 8 credits of elective course(s).

Molecular Biology

EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 459D1*	(3)	Physiology Seminar
PHGY 459D2*	(3)	Physiology Seminar
PHGY 461D1**	(4.5)	Experimental Physiology
PHGY 461D2**	(4.5)	Experimental Physiology
PHGY 488	(3)	Stem Cell Biology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 531	(3)	Topics in Applied Immunology
PHGY 550	(3)	Molecular Physiology of Bone
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHGY 560	(3)	Light Microscopy-Life Science
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.31.5 Bachelor of Science (B.Sc.) - Major Physiology (65 credits)

The Major program includes, in addition to some intensive studies in Physiology, a strong core content of related biomedical sciences. Admission to the Major program will be in U2, upon completion of the U1 required courses, and in consultation with the student's adviser.

If not previously taken, CHEM 212 "Introductory oi 0 0.08 Tm..673.155 259.08 gr Phlogy , ay 1" mustwillpon comeddes, in additionith 64-03.jor prog(65 creTm(.)Tj1



BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

Complementary Courses (28 credits)

12-13 credits selected as follows:

3 credits, one of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 204	(3)	Computer Programming for Life Sciences
COMP 250	(3)	Introduction to Computer Science
PSYC 305	(3)	Statistics for Experimental Design

3 credits, one of:

BIOC 312	(3)	Biochemistry of Macromolecules
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3-4 credits, one of:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 316	(3)	Clinical Human Visceral Anatomy

9 credits selected from the Upper-Level Physiology (ULP) course list as follows:

BIOL 532	(3)	Developmental Neurobiology Seminar
BMDE 505	(3)	Cell and Tissue Engineering
BMDE 519	(3)	Biomedical Signals and Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 414	(3)	Advanced Immunology

MIMM 509	(3)	Inflammatory Processes
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 459D1*	(3)	Physiology Seminar
PHGY 459D2*	(3)	Physiology Seminar
PHGY 461D1**	(4.5)	Experimental Physiology
PHGY 461D2**	(4.5)	Experimental Physiology
PHGY 488	(3)	Stem Cell Biology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 531	(3)	Topics in Applied Immunology
PHGY 550	(3)	Molecular Physiology of Bone
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHGY 560	(3)	Light Microscopy-Life Science
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

* the 6-credit course equals 3 credits of ULP and 6 credits of electives.

** the 9-credit course equals 3 credits of ULP and 6 credits of electives.

6 credits selected from the Upper-Level Science (ULS)

Note: For Chemistry, Neurology, and Neurosurgery: select from all courses 300 level and above and the ULS courses listed below.

For Biochemistry, Computer Science, Microbiology and Immunology, Mathematics, Physics, and Pathology: select from all courses 300 le

BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 324	(3)	Ecological Genetics
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 416	(3)	Genetics of Mammalian Development
BIOL 468	(6)	Independent Research Project 3
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1

AdvAppliedBIOL ioanalyt Sci (3) epary io MethAdvaCell En186413322m(BIOL)BIOL 502 611 0 0 1 221.949 568.316Tm(BIOLular Neurobiology)Tj1 0 0 1 165.8

* Students may take ANAT 458 or BIOC 458 but not both.

Note: Students may opt to replace 3 credits of the 6 credits of Upper Level Science with 3 credits selected from the following list:

COMP 364	(3)	Computer Tools for Life Sciences
PHIL 341	(3)	Philosophy of Science 1
PHIL 343	(3)	Biomedical Ethics
REDM 410	(3)	Writing Research Articles

11.13.31.6 Bachelor of Science (B.Sc.) - Major Physiology and Mathematics (79 credits)

Required Courses (70 credits)

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 247*	(3)	Honours Applied Linear Algebra
MATH 315**	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 325**	(3)	Honours Ordinary Differential Equations

* Students may take either MATH 223 or MATH 247.

** Students may take either MATH 315 or MATH 325.

Physiology and Mathematics Core

BIOL 309	(3)	Mathematical Models in Biology
BMDE 519	(3)	Biomedical Signals and Systems
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 248***	(3)	Honours Vector Calculus
MATH 314***	(3)	Advanced Calculus
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 437	(3)	Mathematical Methods in Biology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

*** Students may take either MATH 248 or MATH 314.

Complementary Courses (9 credits)

3 credits, one of:

COMP 204	(3)	Computer Programming for Life Sciences
COMP 250	(3)	Introduction to Computer Science

3 credits, one of:

PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience

3 credits, one of:

PHYS 413	(3)	Physical Basis of Physiology
PHYS 519	(3)	Advanced Biophysics

11.13.31.7 Bachelor of Science (B.Sc.) - Major Physiology and Physics (82 credits)

This program provides a firm foundation in physics, mathematics, and physiology. It is appropriate for students interested in applying methods of the physical sciences to problems in physiology and allied biological sciences.

Required Courses (76 credits)

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 247*	(3)	Honours Applied Linear Algebra
MATH 315**	(3)	Ordinary Differential Equations
MATH 325**	(3)	Honours Ordinary Differential Equations
PHYS 329	(3)	Statistical Physics with Biophysical Applications

* Students may take either MATH 223 or MATH 247.

** Students may take either MATH 315 or MATH 325.

Physiology and Physics Core

BMDE 519	(3)	Biomedical Signals and Systems
MATH 248***	(3)	Honours Vector Calculus
MATH 314***	(3)	Advanced Calculus
MATH 326	(3)	Nonlinear Dynamics and Chaos
		Mathematical Methods in Biology

PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 346	(3)	Majors Quantum Physics

*** Students may take either MATH 248 or MATH 314.

Complementary Courses (6 credits)

3 credits, one of:

PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience

3 credits, one of:

PHYS 413	(3)	Physical Basis of Physiology
PHYS 519	(3)	Advanced Biophysics

11.13.31.8 Bachelor of Science (B.Sc.) - Honours Physiology (75 credits)

All admissions to the Honours program will be in U2, and the student must have a U1 GPA of 3.30, with no less than a B in PHGY 209 and PHGY 210. Admission to U3 requires a U2 CGPA of 3.20 with no less than a B in U2 Physiology courses. Decisions for admission to U3 will be heavily influenced by student standing in U2 courses.

The Department reserves the right to restrict the number of entering students in the Honours program. Students who do not maintain Honours standing may transfer their registration to the Major program in Physiology.

The deadline to apply to the Honours program is August 23, 2019. Application forms are available online at physiology.med@mcgill.ca or a hard copy can be picked up at McIntyre 1021. Please contact Sonia Viselli, Student Affairs Officer (sonia.viselli@mcgill.ca; 514-398-3689) for more information. An email will be sent to acknowledge receipt of your application.

Graduation: To graduate from the Honours Physiology program, the student will have a CGPA of 3.20 with a mark no less than a B in all Physiology courses. If not previously taken, CHEM 212 Introductory Organic Chemistry 1 must be completed in addition to the 75 program credits.

Required Courses (60 credits)

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 311	(3)	Metabolic Biochemistry
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 222	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1

Introductory Physiology Laboratory 2

MIMM 509	(3)	Inflammatory Processes
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 488	(3)	Stem Cell Biology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 531	(3)	Topics in Applied Immunology
PHGY 550	(3)	Molecular Physiology of Bone
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHGY 560	(3)	Light Microscopy-Life Science
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.31.9 Physiology (PHGY) Related Programs

11.13.31.9.1 Interdepartmental Honours in Immunology

For more information, see [section 11.13.18: Immunology](#). This program is offered by the Departments of Biochemistry, Microbiology and Immunology, and Physiology.

Students interested in the program should contact:

Dr. Monroe Cohen
 Physiology
 Telephone: 514-398-4342
 Email: monroe.cohen@mcgill.ca

OR

Dr. C. Piccirillo
 Microbiology and Immunology
 Telephone: 514-934-1934, ext. 76143
 Email: ciro.piccirillo@mcgill.ca

11.13.32 Psychiatry (PSYT)

11.13.32.1 Location

1033 Pine Avenue West, Room 104
 Montreal QC H3A 1A1
 Telephone: 514-398-4176
 Website: mcgill.ca/psychiatry/education/graduate-program

11.13.32.2 About Psychiatry

There are no B.Sc. programs in Psychiatry, but the PSYT courses listed below are administered by the Faculty of Science and are open to Arts and Science students and to graduate students, subject to the regulations and restrictions of their home faculty

Courses

PSYT 199	FYS: Mental Illness and the Brain
PSYT 301	Issues in Drug Dependence
PSYT 400D1/PSYT 400D2	Research Project in Psychiatry
PSYT 455	Neurochemistry
PSYT 500	Advances: Neurobiology of Mental Disorders
PSYT 502	Brain Evolution and Psychiatry
PSYT 503	Mental Health Services and Policy
PSYT 504	Issues in Forensic Mental Health
PSYT 515	Advanced Studies in Addiction

11.13.33 Psychology (PSYC)

11.13.33.1 Location

2001 McGill College, Room 740
Montreal QC H3A 1G1
Telephone: 514-398-6100
Fax: 514-398-4896
Email: info@psych.mcgill.ca
Website: mcgill.ca/psychology

11.13.33.2 About Psychology

The Department of Psychology offers programs in both Arts and Science. All B.A. programs in Psychology can be found in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.33: Psychology \(PSYC\)](#).

Psychology is the scientific study of mind and behaviour. It is both a **social** and a **biological** science.

- As a **social science**, psychology examines the social nature of human beings and the influence that culture, group membership, and relationships have on individual personality, thought, and behaviour.
- As a **biological science**, psychology seeks to identify the neural basis of human behaviour, both directly, through the study of humans, and indirectly, through the study of other species.

The data of psychology is collected within the psychological laboratory by the use of experimental methods in the study of behaviour, and outside the laboratory by systematic observation of the behaviour of humans and animals. The aim is to formulate general principles of perception, learning, motivation, cognition, and social psychology that are relevant to different aspects of human life. Experimentation, laboratory techniques, observational procedures, measurement, and statistical methods are important tools of the psychologist.

Psychology has many interdisciplinary aspects. The study of psychological problems often involves knowledge drawn from other disciplines such as biology, physiology, linguistics, sociology, philosophy, and mathematics. For this reason, a student with varied interests can frequently find a place for these in psychology.

Psychology is a young science, so explanations of the processes underlying observed phenomena are often theoretical and speculative. The major objectives of psychological study are to reduce the discrepancy between theory and fact and to provide better answers about why humans think and behave as they do.

Undergraduate Studies

Although a number of undergraduate courses in psychology have applied implications, applied training is not the purpose of the undergraduate curriculum. Its purpose is to introduce the student to an understanding of the basic core of psychological knowledge, theory, and method, regardless of questions of practical application.

The B.Sc. or B.A. with a

Graduate Studies

Students who are interested in psychology as a career must pursue graduate studies. Persons who hold graduate degrees in Psychology, usually the Ph.D., may find employment in universities, research institutes, hospitals, community agencies, government departments, large corporations, or may act as self-employed consultants. At the graduate level, psychology has many specialized branches including social psychology, physiological psychology, experimental psychology, clinical psychology, child psychology, industrial psychology, community psychology, educational psychology, and others.

Requirements for admission to graduate studies in psychology v

Emeritus Professors

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.)
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

Rhonda Amsel; B.Sc., M.Sc.(McG.) (*Associate*)
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.)
M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)
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 Neuropsychology Performance*)

Assistant Professors

J. Axt; B.A.(Duke), M.A., Ph.D.(Virg.)
R. Bagot; B.Sc.(UNSW), Ph.D.(McG.)
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)
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
J. Kreitewolf

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.) (*Associate*)

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. Zolkowitz
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

11.13.33.6 Bachelor of Science (B.Sc.) - Minor Psychology (24 credits)

A minor program in Psychology is available to students registered in any B.Sc. program other than Psychology. This program is intended to complement a student's primary field of study by providing a focused introduction to specialized topics in psychology.

A separate minor concentration exists for students registered in a program in the Faculty of Arts.

The Minor program for Science students requires the completion of 24 credits, of which no more than 6 may overlap with the primary program. All courses in the Minor program must be passed with a minimum grade of C. A prerequisite to the program is PSYC 204 or equivalent.

Complementary Cour

PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 451	(3)	Human Factors Research and Techniques
PSYC 470	(3)	Memory and Brain
PSYC 501	(3)	Auditory Perception
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 536	(3)	Correlational Techniques
PSYC 537	(3)	Advanced Seminar in Psychology of Language
PSYC 538	(3)	Categorization, Communication and Consciousness
PSYC 541	(3)	Multilevel Modelling
PSYC 545	(3)	Topics in Language Acquisition
PSYC 561	(3)	Methods: Developmental Psycholinguistics
PSYC 562	(3)	Measurement of Psychological Processes
RELG 443	(3)	Japanese Esoteric Buddhism

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology).

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology

PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships

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List A

6 credits in Psychology from List A (Behavioural Neuroscience, Cognition and Quantitative Methods).

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective Psychological

PSYC 562 (3) Measurement of Psychological Processes

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology).

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression and Anxiety
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

6 credits at the 300 level or above.

9 credits in Psychology at the 400 or 500 level.

12 credits at the 300 level or above in any of the following disciplines: Psychology (PSYC), Anatomy and Cell Biology (ANAT), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PSYT).

11.13.33.9 Bachelor of Science (B.Sc.) - Honours Psychology (60 credits)

Honours in Psychology prepares students for graduate study, and so emphasizes practise in the research techniques which are used in graduate school and professionally later on. Students are normally accepted into Honours at the beginning of their U2 year, and the two-year sequence of Honours courses continues through U3.

Recommended Background

It is expected that most students who enter the Honours program in Psychology will have taken introductory psychology, biology, and statistics at the collegial level. Recommended CEGEP courses include Psychology 350-101 or 350-102 or equivalent; Biology CEGEP objective 00UK, 00XU or equivalent; and Statistics (Mathematics) 201-307 or 201-337 or equivalent. Students must obtain a minimum grade of 75% in their CEGEP-level statistics course. In the first year, those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology)

PSYC 304	(3)	Child Development
PSYC 316	(3)	Psychology of Deafness
PSYC 328	(3)	Health Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 337	(3)	Introduction to Psychopathology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 408	(3)	Principles and Applications of Psychotherapy
PSYC 409	(3)	Positive Psychology
PSYC 412	(3)	Developmental Psychopathology
PSYC 414	(3)	Social Development
PSYC 436	(3)	Human Sexuality and Its Problems
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships
PSYC 475	(3)	Neuroscience of Social Psychology
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 491D1	(3)	Advanced Study: Behavioural Disorders
PSYC 491D2	(3)	Advanced Study: Behavioural Disorders
PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 509	(3)	Diverse Clinical Populations
PSYC 512	(3)	Advanced Personality Seminar
PSYC 528	(3)	Vulnerability to Depression and Anxiety
PSYC 530	(3)	Applied Topics in Deafness
PSYC 533	(3)	International Health Psychology
PSYC 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

9 credits at the 300 level or above selected from:

Anatomy and Cell Biology (ANAT), Biochemistry (BIOC), Biology (BIOL), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PYST), Psychology (PSYC).

11.13.34 Redpath Museum (REDM)**11.13.34.1 Location**

Redpath Museum
 859 Sherbrooke Street West
 Montreal QC H3A 0C4
 Telephone: 514-398-4086 ext. 3188
 Fax: 514-398-3185
 Email: redpath.museum@mcgill.ca
 Website: mcgill.ca/redpath

The Redpath Museum fosters the study of the history and diversity of the natural world. Its mandate includes biological, geological, and cultural diversity, and science education. It conducts academic teaching and research activities and also provides academic services to other units. The Redpath Museum offers a B.Sc.

Redpath Museum Courses

REDM 396	Undergraduate Research Project
REDM 400	Science and Museums
REDM 405	Natural History of East
REDM 511	Advanced Museum-Based Science

Director

Hans C.E. Larsson

Emeritus Professor

Robert L. Carroll; B.Sc.(Mich.), Ph.D.(Harv.), F.R.S.C., F.L.S.

Professors

David M. Green; B.Sc.(Br. Col.), M.Sc., Ph.D.(Guelph), F

Andrew Hendry; B.Sc.(Vic., BC), M.Sc., Ph.D.(Wash.) (*joint appt. with Biology*)

Anthony Ricciardi; B.Sc.(Agr.), M.Sc., Ph.D.(McG.) (*joint appt. with Bieler School of Environment*)

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 vid N. Harpp (*Tomlinson Chair in University Science Teaching*)

Earth & Planetary Sciences: Jeanne Paquette

Adjunct Professors

Robert Holmes, Henry M. Reiswig, Michael Woloch

The Minor Natural History involves the exploration of the natural world via specimen-based studies, object-oriented investigations and field studies. Museum collections are used to provide hands-on experience with real objects and specimens. The required course brings students to the Redpath Museum and other McGill natural science museums and exposes them to natural history methodologies and the value of specimen-based studies. Complementary course lists are drawn from a variety of disciplines to emphasize breadth and integration with the inclusion of specimen- or object-based courses and field courses in zoology, botany, and earth and environmental sciences. To ensure breadth, students are required to choose courses from among these lists. A compulsory field course component rounds out the program.

REDM 400 (3) Science and Museums

ENVR 202	(3)	The Evolving Earth
EPSC 210	(3)	Introductory Mineralogy
EPSC 233	(3)	Earth and Life History
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 470	(3)	Wetlands
GEOG 550	(3)	Historical Ecology Techniques

List D: Field Studies

* Note: Students may take either of the cross-listed courses NRSC 405 and REDM 405, but not both.

Students may also take other field courses with the permission of the Program Adviser.

BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334	(3)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
BIOL 573	(3)	Vertebrate Palaeontology Field Course
ENTO 340	(3)	Field Entomology
EPSC 231	(3)	Field School 1
NRSC 405*	(3)	Natural History of East Africa
REDM 405*	(3)	Natural History of East Africa
WILD 475	(3)	Desert Ecology

11.13.35 Science or Mathematics for Teachers

Location

Minor in Education for Science Students

Faculty of Education
Telephone: 514-398-7042
Website: mcgill.ca/isa

11.13.35.4 Bachelor of Science (B.Sc.) - Minor Education for Science Students (18 credits)

This Minor allows Science students to develop or explore an interest in Education without committing themselves to completing a B.Ed. degree. Science students who have taken this Minor in Education will have completed some of the credits for the B.Ed. degree should they wish to enrol in that program. Students graduating with a B.Sc. should also consider the Master of Arts in Teaching and Learning (<http://www.mcgill.ca/dise/grad/>) if they are interested in obtaining a teaching license.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

For more information please contact:

Internships & Student Affairs Office, Faculty of Education

General Information: 514-398-7042

Website: <http://www.mcgill.ca/isa>

Required Courses (6 credits)

EDEC 260	(3)	Philosophical Foundations
EDPE 300	(3)	Educational Psychology

Complementary Courses (12 credits)

3 credits from:

EDEC 233	(3)	Indigenous Education
EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEM 220	(3)	Contemporary Issues in Education

EDES 353*	(3)	Teaching Secondary Mathematics 1
EDPE 304	(3)	Measurement and Evaluation
EDPI 341	(3)	Instruction in Inclusive Schools

12 Study Abroad and Field Studies

12.1 Opportunities for Field Study and Study Abroad

Besides the many academic resources McGill offers on campus, there are also unparalleled opportunities to enrich your educational experience through exchange programs, internships, field study programs, and McGill courses taught off-campus and abroad. The following sections provide information regarding opportunities in the following categories:

- [section 12.2: Field Study Semesters and Off-Campus Courses](#) – participate in programs and courses offered by McGill University in local, regional, and international settings as a complement to classroom learning.
- [section 12.3: Internships and Co-op Programs](#) – participate in partnerships offered through McGill to gain valuable on-the-job knowledge in your field.
- [section 12.4: Exchange Programs](#) – study at one of McGill's partner universities while earning credit at McGill, and paying McGill tuition.
- [section 12.5: Independent Study Away](#) – Independently study away at another university while earning credit at McGill. Tuition is paid directly to the host university.

Field Study Semesters and Off-Campus Courses

12.2.1.1 Africa Field Study Semester

Website: mcgill.ca/africa

The Africa Field Study Semester comprises 15 credits of field study courses. Two courses (6 credits) in the natural and social sciences provide interdisciplinary academic context for field study. The other 9 credits are taken from the complementary courses list. One final complementary course (3 credits) is taken on campus to complete the Minor program requirements.

Visit the [Africa website](#), or refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#), for the latest program updates.

Offered: Winter term

Location: East Africa

Enrolment Limit: 38 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include airfare, local travel, all food and accommodation, special admission fees for parks and museums, as well as other field costs. Fee details for the upcoming semester are available at mcgill.ca/africa/program-fees.

Students can apply for a Mobility Award. See for details.

Application Deadline: March 31, 2021 for January 2022 (Winter term of the 2020-2021 academic year). Depending on space, there will be a second intake with a deadline date of November 1, 2021.

Application Details: Students must submit:

- the online application (available at mcgill.ca/africa/application);
- a copy of their transcript;
- a letter of intent;
- one reference letter; and
- a CV

to the Internship and Field Studies Office in the Faculty of Science:

Internships & Field Studies Office
Burnside Hall, Room 720
Telephone: 514-398-1063; 514-398-8365
Email: ifso.science@mcgill.ca
Website: mcgill.ca/science/undergraduate/internships-field

Prerequisites: The Africa Field Study Semester is intended for students in their final two years. A CGPA of 3.00 and higher is recommended.

Students from other universities are eligible to apply to the Africa Field Study Semester Supplemental McGill (Science) Admission Program at McGill University. Please see the

- the online application form (available at mcgill.ca/arctic/apply-now);
- a letter of intent;
- one reference letter;
- a CV; and
- a copy of their transcript.

to the Internship and Field Studies Office in the Faculty of Science:

Science Internship & Field Studies Office
 Burnside Hall, Room 720
 Telephone: 514-398-1063; 514-398-8365
 Email: ifso.science@mcgill.ca
 Website: mcgill.ca/science/student/internships-field

Prerequisites: The Arctic Field Study Semester is intended for students in their final two years. A CGPA of 3.00 and higher is recommended.

For more information and course lists, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.1.3 Barbados Field Semester

Website: mcgill.ca/bfss

Offered: Fall term

Location: Bellairs Research Institute in Barbados

Enrolment Limit: 25 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and most food, as well as other field costs; they do not include airfare. Fee details for the upcoming semester are available at mcgill.ca/bfss.

Students enrolled in the Barbados Field Study Semester (BFSS) program may be eligible for a Mobility Bursary for Exchanges: see mcgill.ca/studentaid/special-funding/mobility-exchanges for details.

Application Deadline: The deadline is in late February each year for admission to the following Fall semester.

Application Details: Students must submit:

- a letter of intent;
- a CV; and
- a copy of their transcript

by email to jocelyne.begin@mcgill.ca. Further details are available at mcgill.ca/bfss.

Prerequisites: None

For more information and course lists, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.1.4 Barbados Interdisciplinary Tropical Studies Field Semester

Website: mcgill.ca/bits

The Barbados Interdisciplinary Tropical Studies Field Semester is administered by the Faculty of Agricultural and Environmental Sciences. Three intensive courses run consecutively with a 6-credit project course. Courses integrate class and laboratory experiences with extensive field trips.

Offered: Summer term

Location: Bellairs Research Institute in Barbados

Enrolment Limit: 25 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and most food, as well as other field costs; they do not include airfare. Fee details for the upcoming semester are available at mcgill.ca/bits/cost.

McGill students may be eligible for a Mobility Bursary; see mcgill.ca/studentaid/special-funding/mobility-exchanges for details.

Application Deadline: Please consult the [website](#) for upcoming deadlines.

Application Details: Students must submit:

- a letter of intent;

- a CV; and
- an application form (available on the [website](#))

by email to julie.major@mcgill.ca. Further details are available at mcgill.ca/bits.

Prerequisites: A CGPA of 2.5 or higher is recommended.

For more information on the field studies minor and course lists, see [Faculty of Science](#) > [Undergraduate](#) > [Browse Academic Units & Programs](#) > [Field Study](#) > [section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.1.5 Panama Field Study Semester

Website: mcgill.ca/pfss

Offered: Winter term

Location: Smithsonian Tropical Research Institute (STRI) in Panama

Enrolment Limit: 26 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and other field costs; they do not include airfare, food, or other living expenses. Fee details for the upcoming semester are available at mcgill.ca/pfss/cost.

Students can apply for a Mobility Award. See mcgill.ca/mcgillabroad/funding/undergraduate-mobility-award for details.

Application Deadline: March 31, 2021 for January 2022 (Winter term of the 2021-2022 academic year).

Application Details: Students must submit:

- the online application (available at mcgill.ca/pfss/application);
- a copy of their transcript;
- a letter of intent; and
- a CV

to the Internship and Field Studies Office in the Faculty of Science:

Internships & Field Studies Office
Burnside Hall, Room 720
Telephone: 514-398-1063; 514-398-8365
Email: ifso.science@mcgill.ca
Website: mcgill.ca/science/undergr

12.2.3.1 Animal Science

The following course is offered off campus by the Department of Animal Science.

Off-Campus Animal Science Course

AGRI 325	(3)	Sustainable Agriculture and Food Security
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12.2.3.2 Architecture

The following course is offered off campus by the School of Architecture.

Off-Campus Architecture Courses

ARCH 379	(3)	Summer Course Abroad
ARCH 519	(3)	Field Course Abroad

12.2.3.3 Biology

The Faculty of Science offers the following biology courses off campus.

Off-Campus Biology Courses

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1/BIOL 334D2	(3)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
BIOL 573	(3)	Vertebrate Palaeontology Field Course

12.2.3.4 Earth & Planetary Sciences

The following courses are two-week field studies (May) in selected branches of the geosciences to examine processes in geology.

Off-Campus Earth & Planetary Sciences Courses

EPSC 231	(3)	Field School 1
EPSC 331	(3)	Field School 2

12.2.3.5 Geography

The Faculty of Science offers the following Geography courses off campus.

Off-Campus Geography Courses

GEOG 290	(1)	Local Geographical Excursion
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

12.2.3.6 History & Classical Studies

The Department of History and Classical Studies offers the following field courses.

Off-Campus History & Classical Studies Courses

CLAS 349	(3)	Archaeology Fieldwork: Italy
HIST 262	(3)	Mediterranean and European Interconnections

12.3 Internships and Co-op Programs

For information on internships and co-op programs, refer to [University Regulations and Resources > Undergraduate > section 1.7: Internships, Exchanges, and Co-op Programs](#), or the [Internship Offices Network website](#).

12.4 Exchange Programs

Exchanges allow McGill students to complete a semester or year of study at a partner university. Students explore, learn, and grow abroad, all while earning credit toward their McGill degree and paying McGill tuition.

Student exchange agreements are tuition exchange agreements that exist between McGill University and peer institutions which have been reviewed and approved by McGill. The number of exchange spaces available at the host institution are limited, and vary from year to year. McGill students nominated to participate on an e

12.6 Funding opportunities for going abroad

Awards and financial assistance are available to students to help with the cost of going abroad. Further information, as well as application deadlines and eligibility, can be found in the following sections and on the [McGill Abroad website](#).

12.6.1 Government Student Financial Assistance

Students participating in an official McGill exchange program show as re