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12.7 Further Informations,



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# 1 University Regulations and Resources

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## 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.

### 1.1.1 Authorization, Acknowledgement, and Consent

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

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

### Student Rights and Responsibilities



In addition to the above, **if you are a candidate f**

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](#).

- Apply to graduate
- View graduation status and convocation details
- Order official transcripts
- Retrieve tax receipts
- Order a reduced-fare STM Opus card

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

#### 1.1.8.5 myMcGill

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

Systems accessible through the portal include:

- Athletics
- Email
- FAMIS
- [McGill home page](#)
- InfoEd
- Library
- Minerva
- myCourses
- myFuture
- myLab
- Visual Schedule Builder

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

### 1.1.9 Student Health & Insurance

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

#### 1.1.9.1 Health Professions – Immunization Requirement

A compulsory immunization program exists at McGill for students in the health science fields (including Dietetics), as well as in the School of Social Work. If you are a new student in those programs, you must complete the immunization program well before classes begin. You can find further information at [www.mcgill.ca/wellness-hub/access-care/vaccines](http://www.mcgill.ca/wellness-hub/access-care/vaccines) or by calling the Student Wellness Hub at 514-398-6017.

#### 1.1.9.2 Health Insurance – International Students

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

By Senate regulation, all international students (full-time, part-time, half-time, Additional Session, Thesis Evaluation, Non-Thesis Extension, Special, Exchange, and Visiting) and their accompanying dependants must participate in the University's compulsory International Student Health Insurance Plan (IHI). The University and the Quebec Ministry of Education require a copy of your proof of health insurance on finj1 0 Tma

Website: [www.mcgill.ca/macdonald-studentservices](http://www.mcgill.ca/macdonald-studentservices)

For details on the health insurance plan and information concerning rates, consult the [ISS website](#).

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

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

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

**International Health Insurance**

Telephone: 514-398-4349

Email: [international.health@mcgill.ca](mailto:international.health@mcgill.ca)

Website: [www.mcgill.ca/internationalstudents/health](http://www.mcgill.ca/internationalstudents/health)



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

### 1.1.9.3 Health Insurance – Canadian Citizens and Permanent Residents

#### Canadians residing in Canada

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

Studentcare/*Alliance pour la santé étudiante au Québec* (ASEQ)

Telephone: 514-789-8775 or 1-866-795-4435 (Monday to Friday, 9 a.m. to 5 p.m.)

Website: [www.studentcare.ca](http://www.studentcare.ca)

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

#### Canadians who have been residing outside of Canada

If you are a Canadian student who has been living abroad, you may not be eligible for provincial health insurance coverage. To verify your [eligibility](#) for



can be discussed with an Access adviser. Academic accommodation planning and support is available to students at the downtown campus as well as the MacDonald campus, and to students in Continuing Studies. Please refer to [www.mcgill.ca/osd](http://www.mcgill.ca/osd) for more information, or to book an appointment.



**Note for Medicine and Dentistry:** See the WELL Office at [www.mcgill.ca/thewelloffice](http://www.mcgill.ca/thewelloffice).

#### **1.1.9.5 Academic Accommodation of Pregnant Students and Students Caring for Dependants**

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

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

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

Please consult [the guidelines](#).

#### **1.1.10 Non-Smoking Policy**

Quebec law prohibits smoking in public buildings. For more information, see [www.mcgill.ca/ehs/policies-and-safety-committees/policies/mcgill-smoking-policy](http://www.mcgill.ca/ehs/policies-and-safety-committees/policies/mcgill-smoking-policy).

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## **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, leg

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:** Students admitted to the Faculty of Medicine 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 [www.mcgill.ca/medadmissions/applying/elements](http://www.mcgill.ca/medadmissions/applying/elements).

### 1.2.2.2 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

You have applied to McGill directly from CEGEP or you already have a student record at McGill	<ul style="list-style-type: none"><li>• <b>Usually</b> 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 <a href="#">Minerva</a> account to verify that your status is updated correctly (Select <i>Student Menu</i> &gt; <i>Student Accounts Menu</i> &gt; <i>View your Tuition and Legal Status</i>)</li></ul>
You have applied to McGill from another Quebec university	<ul style="list-style-type: none"><li>• Proof of Canadian status is required: Canadian birth certificate; or Canadian citizenship card or certificate (both sides); or Certificate of Indian status card; or Makivik Society Settlement Card (001492.296.673 46531 0261)</li><li>• Confirmation of Permanent Residence document ( <i>Note 2</i>); or valid Canadian Permanent Resident card (both sides of the card)</li><li>• Additionally, for Quebec residency status, <b>usually</b> no documents are required, unless McGill cannot confirm this from the Government of Quebec. Check your <a href="#">Minerva</a> account to verify that your status is correct</li></ul>
You were born in Quebec	<ul style="list-style-type: none"><li>• Quebec <b>birth certificate</b> (<i>Note 4</i>)</li></ul>
You were born in (or are a Landed Immigrant from) a Canadian province	



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



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



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



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

#### 1.2.2.2.1 Fee Exemptions

Exemption from the out-01.72 Tm(Ex)Tj1.o

your documents listed in [section 1.2.2.2: What Documents Does McGill Need from You?](#) or the Government of Quebec has not yet confirmed that your documents are sufficient to create a Permanent Code.

#### 1.2.2.4 What Are the Consequences of Not Providing Your Documents?

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

If documents are still missing from your file subsequent to the start of the semester, a hold will be added to your record preventing you from registering or dropping any courses, and from obtaining your official transcript.

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

#### 1.2.2.5 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 on each document so that McGill can match them to your record. The sooner you submit your documents, the sooner the University can update your status and ensure that your record is in order. Refer to [www.mcgill.ca/legaldocuments/how](http://www.mcgill.ca/legaldocuments/how) for further details.

##### **By Email:**

Follow these steps to submit your legal documents electronically.

1. **Save the attached file in the accepted format : Standard PDF (.pdf).** Standard PDF (.pdf) is the only accepted format. Encrypted PDFs will not be accepted.

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

2. **Ensure that the resolution used is at least 300 dpi (dots per inch)** for an electronic replica (scan) of documentation (e.g., a scan of your birth certificate). The preferred file size is 100KB per image.
3. **Address your email to [legaldocumentation@mcgill.ca](mailto:legaldocumentation@mcgill.ca) and attach your relevant scanned document(s).** Attach the file(s) to your email; do not include the documents in the body of your email.
4. **Put your First Name, Last Name, and McGill ID number in the subject line of your email.**

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

##### **If there is a problem with your documents, contact:**

Telephone: 514-398-7878

Website: [www.mcgill.ca/servicepoint/contact-us](http://www.mcgill.ca/servicepoint/contact-us)

#### 1.2.2.5.1 For the School of Continuing Studies

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

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

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

The preferred first name may be used on all unofficial university documents and tools, such as:

- McGill ID cards
- Class lists
- Student advising transcripts

The student's legal name must appear on official university documents, such as:

- Official university transcripts
- Reports to government
- Letters of attestation



**Note for the Faculty of Law:** The registration period for new Law students for the 2019–2020 academic year begins Tuesday, July 16, 2019 and ends at the end of the course change period (September 17, 2019).

**Returning Students** – During the month of May, students in upper years are required to register on Minerva indicating their course selections for the next academic year.

Students in the Faculty of Law should consult registration materials available at [www.mcgill.ca/law-studies/courses](http://www.mcgill.ca/law-studies/courses).



**Note for Medicine and Dentistry:** All M.D., C.M. and D.M.D. students must complete registration online, as per [section 1.3.1: Registration Periods](#), by adding the prescribed courses on [Minerva](#) in the Fall term. U3 medical students need to have registered prior to July 29.

### 1.3.1 Registration Periods

The dates given below were accurate when this publication was finalized. Although changes are not anticipated, you should confirm the dates at [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).

#### 1.3.1.1 Returning Students

Registration for undergraduates will take place between Tuesday, April 2 and Wednesday, August 14, 2019.

Registration will open in the following order:

##### Opening Registration Dates

Year 3 and Year 4 students:

Tuesday, April 2

Wednesday,

If you are a newly admitted student in September 2019 and you want to register for courses in the Summer of 2019, you can do so on Minerva. Please refer to [Summer Studies](#) for further information, or see [www.mcgill.ca/summer](http://www.mcgill.ca/summer).

**Note for the Faculty of Law: Tuesday, July 16, 2019:** registration opens for newly admitted students. You can find instructions on how to use Minerva in your orientation package; for more information, see [www.mcgill.ca/law-studies/information/orientation](http://www.mcgill.ca/law-studies/information/orientation).



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

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

### 1.3.2.2 Multi-term Courses

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

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

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

**Courses with numbers ending in D1 and D2** are taught in two consecutive terms (most commonly Fall and Winter). *You must register for the same section of both the D1 and D2 components.* When registering for a Fall term D1 course on Minerva, you will automatically be registered in the same section of the Winter term D2 portion. No credit will be given unless the same section of both components (D1 and D2) are successfully completed in consecutive terms, e.g., Fall 2019 and Winter 2020.

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

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



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

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

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

### Important Conditions for Multi-term Courses

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

#### 1.3.2.4 Course Load

It is your responsibility to follow the faculty regulations listed below. When registering on *Minerva*, you must not exceed the maximum credits permitted by your faculty. For information on course load requirements for entrance scholarships' renewal and in-course awards, see [section 1.8.1: Entrance Awards for McGill Students](#).

##### 1.3.2.4.1 Normal Course Load

The normal course load in most undergraduate faculties is 15 credits per term. If you carry fewer than 12 credits per term, you are considered to be a part-time student in that term.



**Note for the Faculty of Agricultural and Environmental Sciences and the Schulich School of Music:**

- The normal course load is 15 to 18 credits per term.



**Note for the Faculties of Arts and Science (including B.A. & Sc.):**

- Newly admitted students may take up to 17 credits per term.
- Continuing students in **Satisfactory Standing** may take up to 17 credits per term.
- Continuing students whose CGPA is above 3.50 may take more than 17 credits per term. Requests to exceed 17 credits per term are made to Enrolment Services via Minerva, [www.mcgill.ca/servicepoint/exceedcredits](http://www.mcgill.ca/servicepoint/exceedcredits); it is important that you also see a Faculty Adviser in Dawson Hall to talk about your options, and the effects that your request may have on your studies. For more information, see [www.mcgill.ca/students/advising/advisordirectory](http://www.mcgill.ca/students/advising/advisordirectory)

- Science: up to 14 credits

In some cases, a student in Probationary Standing may add a repeated course in which a grade of D or F was obtained.

#### 1.3.2.4.3 Course Information and Regulations

Please see [section 1.3.2: Course Information and Regulations](#).

#### 1.3.2.5 Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option

The principle of the Satisfactory/Unsatisfactory (S/U) option is to encourage you to take courses outside the area of your specialization with the view of enabling you to acquire knowledge and skills in a variety of fields.

Where permitted by faculty and program regulations, you may take one elective course per term to be graded under the Satisfactory/Unsatisfactory (S/U) option, to a maximum of 10% of your credits taken at McGill to fulfil the degree requirements.

If you decide to have an elective course graded as Satisfactory/Unsatisfactory (S/U), you must do so before the course change deadline on [Minerva](#) as part of the *Student Menu > Registration Menu > Quick Add or Drop Course Sections Menu*. **You cannot make any changes after the course change deadline even if you selected the option by mistake.** If the course is a multi-term course, you must select the S/U option by the Course Change deadline of the first part of the course.

The instructor will report grades in the normal fashion.

- Grades of A through C are converted to “Satisfactory” (S)
- Grades of D, F, and J are converted to “Unsatisfactory” (U)

The courses taken under the S/U option will be excluded from the grade point average (GPA) calculations, but they will be included in the attempted credits total. Credits for courses with a final grade of S will also be included in the number of credits earned.



**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, 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 T



**Note for the M.D.,C.M. program:** The M.D.,C.M. program functions on a pass/fail system. Your final grade for each course is recorded on your university transcript as <S> *satisfactory* (pass) or <U> *unsatisfactory* (fail). See : [Assessment System](#) for further details.



**Note for Music:** Music students may use the S/U option for elective courses taken outside the Schulich School of Music (non-music courses). Please note that the S/U option is not permitted for courses that are taken to satisfy a minor.



**Note for Nursing:** The S/U option is not available to B.N.I. and B.Sc.(N.) students for required courses.



**Note for Physical and Occupational Therapy:** The S/U option is not available to Physical and Occupational Therapy students.

## First-Year Seminar


- Tuesday, September 24, 2019

Deadlines for withdrawal (grade of W) without refund:


- Single-term courses: Tuesday, October 29, 2019
- Multi-term courses that begin in Fall term (**refund for the Winter portion of the course only**): Tuesday, January 21, 2020


**Cour**


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 withdraw


 **Note for Arts, Science\*, or B.A. & Sc. degree (96 or fewer credits):** You may change major/major concentrations, minor/minor concentrations or faculty programs using Minerva. You may also change into, or out of, an honours program. Some restrictions apply.


\* Science students are limited to choosing majors or honours programs within the Science group to which they were admitted, but may continue to choose freely from all available minor programs. To change to a major or honours program in another Science group, students must submit an Intra-Faculty Transfer application; see [www.mcgill.ca/students/transfer-readmission](http://www.mcgill.ca/students/transfer-readmission).

 **Note for Desautels Faculty of Management:** You may add or change certain programs using Minerva. Please verify restrictions with the BCom Office ([www.mcgill.ca/desautels/programs/bcom/contact-us](http://www.mcgill.ca/desautels/programs/bcom/contact-us)).

 **Note for Faculty of Education (B.Ed. Secondary program):** You may add, drop, or change majors using Minerva.

 **Note for Faculty of Engineering students who have confirmed their offer of admission to the B.Eng. Electrical/B.Eng. Computer/B.S.E. (Software Engineering) program:** You must select your specific program using Minerva before the beginning of classes, in your first term. To make any further change, you must consult an adviser in the Department of Electrical and Computer Engineering ([www.mcgill.ca/ece/facultystaff/under](http://www.mcgill.ca/ece/facultystaff/under)). If you are in another program in the Faculty of Engineering, you cannot make any program changes using Minerva.


 **Note for Faculty of Law:** The addition of a major or minor must be approved by the Student Affairs Office; you will be blocked from making any program changes on Minerva.

 **Note for Schulich School of Music:** The addition of a minor must be approved by the Student Affairs Office. To change a major, students must submit an Intra-Faculty Transfer application. For specific program details: [www.mcgill.ca/music/student-resources/undergraduates/academic-resources/program-transfer-and-readmission](http://www.mcgill.ca/music/student-resources/undergraduates/academic-resources/program-transfer-and-readmission).

### 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* ([www.mcgill.ca/minerva](http://www.mcgill.ca/minerva)), unless otherwise indicated in the table below.

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 faculty transfers, please see [www.mcgill.ca/students/transfer-readmission](http://www.mcgill.ca/students/transfer-readmission).

 **Note for International students:** Please note that International students who transfer to degrees in Computer Science, Engineering, Law, Management, or Science will be charged the tuition rate in effect for newly admitted students to those degrees in their term of transfer.

Faculty/School	Notes	Fall Term Application Deadline	Winter Term Application Deadline
Agricultural and Environmental Sciences, Human Nutrition	There are no Winter term transfers into Dietetics and Human Nutrition.	June 1	December 1
Arts	There are no Winter term transfers into Arts, except for Religious Studies.	June 1 (Social Work: May 1)	Religious Studies: November 1
Education	There are no Winter term transfers into Education.	June 1	N/A
Engineering	For Architecture: Contact the Student Affairs Adviser at 514-398-6702 or email <a href="mailto:mary.lanni@mcgill.ca">mary.lanni@mcgill.ca</a> .	May 1	Contact the <a href="#">McGill Engineering Student Centre</a>
Law	There are no transfers into Law. Contact the Faculty of Law Admissions Office for more information at 514-398-6602 or <a href="mailto:admissions.law@mcgill.ca">admissions.law@mcgill.ca</a> .	See admission application deadlines.	N/A
Management	There are no Winter term transfers into Management.	June 1	N/A

Faculty/School	Notes	Fall Term Application Deadline	Winter Term Application Deadline
Science, B.A. & Sc.	There are no Winter term transfers into Science or B.A. & Sc.	May 15	N/A

### 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 show on your McGill transcripts.
- If you are attending McGill as an Exchange student from outside Quebec, you are not eligible to take courses at another Quebec institution through the IUT agreement.
- Any grades received late from host universities may delay your graduation.

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

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



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

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



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



**Note for Engineering:** For most programs, courses that can be taken through the IUT agreement are restricted to specific course categories. For details, please see [www.mcgill.ca/engineering/students/exchanges-study-away/study-away](http://www.mcgill.ca/engineering/students/exchanges-study-away/study-away).



**Note for Nursing:** You must obtain permission from the Ingram School of Nursing to register at another Quebec university for three, or in some cases six, credits per term in addition to your registration at McGill. These courses, subject to the Ingram School of Nursing's 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 (i.e., courses taken at McGill) requirement of 60 credits at McGill in order to qualify for a McGill degree (you should check with the Ingram School of Nursing). This privilege will be granted if there are valid academic reasons. If you want to take advantage of this agreement, please see [www.mcgill.ca/students/iut](http://www.mcgill.ca/students/iut) for information and application procedures. The final grades earned at the host university must meet the minimum requirements as set by the Ingram School of Nursing, i.e., a letter grade of 'C'.



**Note for Physical and Occupational Therapy:** The final grades earned at the host university must meet the minimum requirements as set by the Physical Therapy or Occupational Therapy programs.

#### 1.3.7.2 Quebec Inter-University Transfer Agreement: Visiting IUT Students



**Note for Health Sciences:** This section applies only to the Ingram School of Nursing.



The Quebec Inter-University Transfer (IUT) agreement permits concurrent registration at McGill and another Quebec institution.  
If you are a student at another Quebec univ

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

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



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



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



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



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



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




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


### 1.3.8.3 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 1.2.3: Identification \(ID\) Cards](#).

If you withdraw from the Uni

 **Note for Music:** Applicants to the Schulich School of Music are not eligible to apply for deferred admission.

 **Note for Law:** The Faculty of Law does not normally accept requests for deferred entry. You will be expected to start your course on the date and term you applied for and as indicated on your admission offer letter. If you still wish to seek an admission deferral, you must first accept the offer of admission and pay the \$400 deposit. Once the offer of admission has been accepted, you must submit, in writing, a request for the deferral. The request should be addressed to the Assistant Dean (Admissions and Recruitment) and should set out the reason(s) for the request. You are encouraged to submit your request as early as possible in consideration of other candidates.

 **Note for M.D.,C.M. program:** Requests for deferral must be submitted to the Office of Admissions no later than July 1st of the year in which the deferral is sought. For information, consult the [Office of Admissions website](#).


### 1.3.10 Readmission

To return to McGill after an absence from a Fall and/or Winter term of an academic year, you must submit an application for readmission using [Minerva's Faculty Transfer/Readmission Menu](#). In your application, state the reasons for your absence from the University and give a summary of your activities during that period.


If you withdrew because of illness, you must provide your faculty Student Affairs Office with a medical note to support your application for readmission, stating that you are ready to resume studies.


You must be aware of McGill's time limits for the completion of degrees.


To return to a different faculty after an absence, apply for a faculty transfer using [Minerva's Faculty Transfer/Readmission Menu](#). For more details on the faculty transfer or readmission process, see [www.mcgill.ca/students/transfer-readmission](http://www.mcgill.ca/students/transfer-readmission).


 **Note for International students:** 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.

Faculty/School	Fall Term Application Deadline	Winter Term Application Deadline	Summer Term Application Deadline
Agricultural and Environmental Sciences, Human Nutrition	August 15	November 15	N/A
<a href="#">Arts</a>	July 15 (Religious Studies: June 1)	November 15 (Religious Studies: November 1)	June 10 (Religious Studies: N/A)
Education	July 1	November 15	N/A
Engineering	May 1	November 1	N/A
Management	August 15	November 15	N/A
Music (students who must re-audition)	January 15	November 15	N/A
Music (no audition required)	June 1	November 15	N/A
Nursing	June 15	November 15	N/A
Science, B.A. & Sc.	July 1	November 15	June 10

 **Note for Graduate and Postdoctoral Studies:** Students who have been withdrawn from the University must submit a [Request for Readmission](#) to be considered for readmission into their program. For more information, refer to [www.mcgill.ca/gps/students/progress/admission-former-students](http://www.mcgill.ca/gps/students/progress/admission-former-students).

 **Note for Music students:** If you need more information about the re-audition regulations, contact the Music Student Affairs Office at [studentaffairs.music@mcgill.ca](mailto:studentaffairs.music@mcgill.ca).

 **Note for Law students:** If you need more information about readmission, contact the Law Admissions Office at [admissions.law@mcgill.ca](mailto:admissions.law@mcgill.ca).

 **Note for Medicine:** Students returning from medical leave must provide documentation from the treating physician/professional counsellor attesting to the student's readiness to resume studies. Consult the [Absences and Leaves Policy](#) for details.

### 1.3.11 Faculty/School Specific Information

All students must comply with the regulations and requirements contained in their Faculty section of this publication.

### **1.3.11.1 Agricultural and Environmental Sciences**

Students should note that there are no supplemental examinations for Agricultural and Environmental Sciences courses.

### **1.3.11.2 Arts**

For Faculty of Arts specific program and course information, refer to:

[www.mcgill.ca/oasis](http://www.mcgill.ca/oasis)

Term(s) offered (Fall, Winter, Summer) may appear after the course credit weight to indicate when a course would normally be taught.

All courses have limited enrolment. You may register for and take any course for credit, unless otherwise indicated, in the sections of this publication applicable to the Faculties of Arts and of Science, subject to the course restrictions listed in this section.

Since the registration system is unable to verify whether or not Faculty regulations are respected, it is technically possible to register for courses that may not be credited toward your program. When your record is manually verified, however, any courses taken that break the Faculty or degree regulations will be flagged after the end of course change period as "not for credit". As a result, your expected date of graduation may be delayed.

Some courses may require special permission. You should consult this publication and/or the [Class Schedule](#) well in advance of the course change period to determine if permission is required of the instructor, the department, or the Faculty for any course you want to take.

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.

### **1.3.11.3 Education**

Some courses will be available in the evenings only, or will be offered during the Summer term.

Students should give particular notice to prerequisite and corequisite courses and registration for Field Experience courses.

### **1.3.11.4 Engineering**

Most courses offered by the Faculty of Engineering, including the School of Architecture, are restricted to Engineering students. Non-Engineering students should obtain permission from a Faculty adviser in the Student Affairs Office, Engineering Student Centre (Frank Dawson Adams Building, Room 22), to register for Engineering courses.

A limited number of School of Architecture (ARCH) courses are open to students not registered in the School. Please refer to individual course descriptions.

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 labs, and five hours of personal study per week.

#### **1.3.11.4.1 Extra Courses**

Courses that you choose to take outside your program may be classified as "extra", provided that you choose this option at the time of registration. The course will be designated as "extra" ("RX" at the time of registration, and "E" once the course is graded) on your transcript, and the grade earned in that course will not be included in your grade point average (GPA) calculation.

Term(s) offered (Fall, W

### **1.4.2.2 Invoicing of Fees**

Fees are assessed on a term-by-term basis.

Electronic billing is the official means of delivering fee statements to all McGill students. Your e-bill includes all charges to your account, including tuition, fees, health insurance, and miscellaneous charges. The University generally produces e-bills at the beginning of the month and sends an email notification to your official McGill email address stating that your e-bill is available for viewing on [Minerva](#)

#### **1.4.3.2 International Students**

Exemption from international tuition fees may be claimed by students in certain categories. Such students, if eligible, are then assessed at the Quebec student rate (certain categories may be assessed at the Canadian tuition rate). These categories and the required documentation for each of them, may be viewed at [www.mcgill.ca/legaldocuments](http://www.mcgill.ca/legaldocuments). Further information regarding these reductions of international tuition fees by the Quebec government is available on the *Student Accounts* website under *Tuition & Fees > General Tuition and Fees Information*.

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

#### **1.4.3.3 Tuition Assistance for McGill Staff**

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

#### **1.4.3.4 Staff Dependent Waivers**

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

attend their convocation may be responsible for some additional costs. A fee per official transcript is applicable if you have not been registered at McGill in the last 12 months. Please see [www.mcgill.ca/student-records/transcripts](http://www.mcgill.ca/student-records/transcripts) for further information.

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

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

For further information about administrative charges, see [www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/society-services-and-administrative-fees](http://www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/society-services-and-administrative-fees).

## 1.4.6 Other Fees

For the current year's non-tuition charges, please refer to [www.mcgill.ca/student-accounts/tuition-fees/non-tuition-charges](http://www.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](#). **Otherwise, you are liable for all applicable tuition and other fees.**

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

**If you stop attending classes without dropping your courses, you are liable for all applicable tuition and other fees.** See [section 1.3.8: University Withdrawal](#).

If you are considering withdrawal from the University, please review the information found on the following Student Accounts web page for further detailsm(v)Tj1 0 0



### 1.4.7.2 Refund Procedures

You are not automatically refunded your credit balance as many students choose to keep the balance on account for use for a future term. You may request a refund if you have a credit balance over \$2.00. Students with awards may be subject to a waiting period for their refund until the end of course add/drop, as most awards require full-time registration. For directions on requesting your refund online in Minerva, see [www.mcgill.ca/student-accounts/your-account/requesting-refund](http://www.mcgill.ca/student-accounts/your-account/requesting-refund).



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

## 1.4.8 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 preventing registration or the release of transcripts, the University may require a guaranteed form of payment, for instance, a certified cheque or money order. Certain financial holds prevent the release of diplomas.

**Interest:** Interest is charged on overdue balances at the monthly rate of 1.24% (14.88% annually), multiplied by the balance outstanding after the due date (within 2–3 days). The rate is evaluated each Spring, and then is set for the following academic year. See [www.mcgill.ca/student-accounts/your-account/deadlines-and-penalties/overdue](http://www.mcgill.ca/student-accounts/your-account/deadlines-and-penalties/overdue) for more information.



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

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

#### 1.4.8.1.1 Information for Registered Students

If you register for a term but still owe amounts from previous terms, you must either pay your previous term account balance or make payment arrangements with the Student Accounts Office before the end of the course add/drop period. If you have financial difficulty, first contact the **Student Aid Office** to discuss the possibility of obtaining financial aid:

Brown Student Services Building  
3600 rue McTavish, Room 3200  
Montreal QC H3A 0G3

Telephone: 514-398-6013

Email: [student.aid@mcgill.ca](mailto:student.aid@mcgill.ca)

Website: [www.mcgill.ca/studentaid](http://www.mcgill.ca/studentaid)

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

#### 1.4.8.1.2 Information for Students Who Are No Longer Registered

When students fail to settle their debt or reach a suitable payment arrangement, or fail to provide the Student Accounts Office with up-to-date contact information, the University refers these delinquent accounts to a collection agency. **If neither the University nor the collection agency is able to collect on the account, the University reserves the right to have the student reported to a credit bureau.** You should be aware that the University is entitled to use all legal means to obtain payment and that students are responsible for all costs associated with such actions.

#### 1.4.8.1.3 Cancelling Registration for Non-Payment of Previous Term(s)

In accordance with the fee policies stated in [section 1.4.8.1: Overdue Accounts](#) and [section 1.4.8.1.1: Information for Registered Students](#), before the University cancels your current and subsequent term registration(s), the Student Accounts Office will make all reasonable efforts to notify you if your account is delinquent, or if you owe more than \$100 from the previous term. The cancellation is effective the last day of the add/drop period unless you settle the account or make payment arrangements with the University by then. If you pay or make payment arrangements with the Student Accounts Office after the add/drop deadline and you want the University to reinstate your registration for the current or subsequent term(s), you must complete the *Request for Reinstatement* form ([www.mcgill.ca/student-accounts/forms](http://www.mcgill.ca/student-accounts/forms)) and submit it to the Student Accounts Office, which will forward it to Enrolment Services for approval and processing. Your fee account will be charged a Reinstatement Penalty for the processing of the re-enrolment; exact fee amounts and further details are available on the *Student Accounts* website.

#### 1.4.8.2 Acceptance of Fees vs. Academic Standing

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

For directions on requesting your refund online in Minerva, see [www.mcgill.ca/student-accounts/your-account/requesting-refund](http://www.mcgill.ca/student-accounts/your-account/requesting-refund).

#### 1.4.8.3 Deferred Admission, Degree Transfers, Break in Enrolment

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

**Degree Transfers:** International students who transfer to degrees in Computer Science, Engineering, Law, Management, or Science will be charged the tuition rate in effect for newly admitted students to those degrees in their term of transfer.

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

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

#### 1.4.8.5 Quebec Inter-University Transfer Agreements

If you are taking courses as part of the Quebec Inter-University Transfer (IUT) agreement, you are required to pay the fees at your home university; see [section 1.3.7: Quebec Inter-University Transfer Agreement](#). The agreement covers only the transfer of academic credits.

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

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

#### 1.4.8.6 Senior Citizens

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

### 1.4.9 Sponsorships/Awards/Fee Deferrals

#### 1.4.9.1 Students with Sponsors

If your fees will be paid by an external organization or agency (e.g., Department of Veterans Affairs, Saudi Bureau, foreign government), you must have your sponsor confirm the conditions of their sponsorship (sometimes called a financial guarantee) in writing on their corporate letterhead and send this letter to the University. Once received by the University and if registration has occurred, your account will be adjusted. Sponsors must confirm annually the list of eligible students by August 1st of each year or one month prior to the start of the term. For more information, please refer to [www.mcgill.ca/student-accounts/parents-and-sponsors/third-party-sponsorship](http://www.mcgill.ca/student-accounts/parents-and-sponsors/third-party-sponsorship).

If the sponsor does not pay the promised fees within 90 days of invoicing, you are responsible for paying the fees plus the late payment fee and accrued interest.

#### 1.4.9.2 Students Receiving McGill Awards

Student awards may be paid directly to your student fee account or direct deposited to your bank. Please verify the payment schedule and the method of payment on Minerva's *Financial Aid/Awards* menu if you are expecting a scholarship or award. Students who are expecting awards to be paid in early January prior to the fee deadline may reduce their payment amount by the total amount of their awards. This will avoid unnecessary credit balances to be refunded.

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

#### 1.4.9.3 External Scholarships

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

January, which will be prior to the fee payment deadline.

- [section 1.5.1.8: Academic Standing: Schulich School of Music](#)

#### **1.5.1.1 Academic Standing: Desautels Faculty of Management**

BCom students, see [Desautels Faculty of Management](#) > [Undergraduate](#) > [BCom Degree Requirements](#) > > [1517ents](#)

#### 1.5.1.3.4 Unsatisfactory/Interim Unsatisfactory Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Interim Unsatisfactory Standing (at the end of the Fall term):

- you may continue in your program;
- you must carry a reduced load (maximum 14 credits per term);
- you are strongly advised to consult an academic adviser, before withdrawal deadlines, about your course selection;
- you should see your Faculty adviser to discuss degree planning.

If you are in Unsatisfactory Standing:

- you have failed to meet the minimum standards set by the faculties;
- you may not continue in your program, and your registration will be cancelled.

You will be placed in Unsatisfactory Standing:

- if your CGPA falls or remains below 1.50;
- if your TGPA in the Fall or Winter falls below 2.50 and your CGPA is below 2.00 and if you were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing;
- if you were previously in Unsatisfactory Standing and were readmitted by the Faculty or the Committee on Student Standing but have not satisfied the conditions specified in the letter of readmission.

Appeals for readmission by students in Unsatisfactory Standing must be received in their respective Faculties no later than the deadlines stated on their readmission websites. For **Arts**, see [www.mcgill.ca/oasis/students/seeking-readmission](http://www.mcgill.ca/oasis/students/seeking-readmission). For **Science** (including B.A. & Sc.) see [www.mcgill.ca/science/student/general/readmission](http://www.mcgill.ca/science/student/general/readmission). Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). If you are in Unsatisfactory Standing for the second time, you must withdraw permanently.

Normally, supplemental examinations are not permitted; however, if you are in Unsatisfactory Standing, you may appeal for permission to write a supplemental examination, clearly stating the reasons for special consideration and providing proof as appropriate.

Appeals for readmission or permission for supplemental examinations must be submitted to:

- Arts: Associate Dean (Student Affairs)
- Science and B.A. & Sc.: Director of Advising Services

#### 1.5.1.3.5 Incomplete Standings: Faculties of Arts and Science (including B.A. & Sc.)

- Standing awaits deferred exam.
- Must clear Ks, Ls, or Supplementals.
- Standing Incomplete.

If you are a student with an Incomplete Standing (in the Winter or Summer term):

- you may register for the Fall term, but your Standing must be resolved by the end of the course change period for that term;
- you may continue in the program if Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing;
- you may not continue in your program and your registration will be cancelled if your Standing changes to Unsatisfactory Standing.

If your Standing changes to Unsatisfactory:

- you may ask for permission to continue in your program;
- you must make a request for readmission as soon as you are placed in Unsatisfactory Standing;
- you must provide proof of extenuating circumstances that affected your academic performance (e.g., medical or other documentation).

Requests for readmission following an Unsatisfactory Standing must be submitted to:

- Arts: Associate Dean (Student Affairs)
- Science and B.A. & Sc.: Director of Advising Services

If your Standing is still incomplete by the end of course change period, you should immediately consult with your faculty Student Affairs Office.

At the end of the Winter term, if you have a mark of K or L, you will be placed in the appropriate Standing in June, if the outstanding mark in the course will not affect your Standing. Otherwise, Standing decisions will be made only once incomplete marks have been cleared. For more information about incomplete grades, please refer to [University Regulations and Resources](#) > Undergraduate > Student Records > [section 1.5.5: Incomplete Courses](#).

**Note:** Requests are made at [Service Point](#) (3415 McTavish Street). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see [www.mcgill.ca/students/advising](http://www.mcgill.ca/students/advising).

#### 1.5.1.4 Academic Standing: Faculty of Education

Education students, see [Faculty of Education](#) > [Undergraduate](#) > [Faculty Regulations for Undergraduate Programs](#). [ams.367936770516226.Academic Standing.](#)

#### 1.5.1.5 Academic Standing: Faculty of Engineering

In the Faculty of Engineering, a decision on your Academic Standing is determined on the basis of your cumulative grade point average (CGPA) according to the criteria listed below.



**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.

##### 1.5.1.5.1 Satisfactory Standing: Faculty of Engineering

You are in Satisfactory Standing if you have a CGPA of 2.00 or greater.

You may continue with your studies under the following conditions:

- If you obtained a grade of D or F in a core course, you must repeat the course successfully (grade of C or better) or replace it with an alternative approved course and successfully complete the course.
- If you obtained a grade of F in any other course, you must either repeat the course successfully before graduation or replace it with an alternative approved course and successfully complete the course before graduation.

##### 1.5.1.5.2 Probationary Standing: Faculty of Engineering

You are in Probationary Standing if you have **either**:

a CGPA that is less than 2.00 and equal to or greater than 1.20

**or**

a TGPA that is equal to or greater than 2.50 and a CGPA that is less than 2.00.

You may continue with your studies under the following conditions:

- You must reduce your credit load to a maximum of 13 credits per term and must obtain, at the end of the term, either a CGPA of 2.00 or greater or a TGPA of 2.50 or greater.
- If you have a TGPA of 2.50 or greater, **but** you have a CGPA that is less than 2.00, you may continue with your studies but you will remain in Probationary Standing until you obtain a CGPA of 2.0 or greater.
- If you do not obtain either the TGPA or CGPA noted above, you will be placed in Unsatisfactory Standing.
- You must consult a faculty or departmental adviser before withdrawal deadlines concerning your course selection.

##### 1.5.1.5.3 Unsatisfactory Standing: Faculty of Engineering

You are in Unsatisfactory Standing if you have **either**:

a CGPA that is less than 1.20

**or**

a TGPA that is less than 2.50 and a CGPA that is less than 2.00.

If at any time, you were placed in Unsatisfactory Standing and were readmitted to the Faculty of Engineering after one term away, and you are placed in Unsatisfactory Standing again at the end of any subsequent term, you may not continue in your program. You will be asked to **withdraw** from the Faculty of Engineering for a **minimum of one term or permanently**, based on the conditions of your last letter of readmission.

If you are in Unsatisfactory Standing for the first time, the regulations below apply.

##### Students in Interim Unsatisfactory Standing after the Fall term:

You may continue with your studies under the follo5 444.7 Tm(A that is equal to or 414-4 Tm(yhly)Tj51 0 0 1 136.m5Tj/F3 8.1 s43.66 Tmo CGP)Tj1 0 0/32143isted b

### 1.5.1.6 Academic Standing: Faculty of Law

If you do not obtain a sessional grade point average (GPA at the end of Fall and Winter terms combined) of at least 1.50, you will be required to withdraw from the Faculty. If your sessional GPA is between 1.50 and 1.99, you will be permitted to continue with your program, but you must obtain a subsequent sessional GPA of 2.50 or a Cumulative GPA (CGPA) of 2.00. You must have a CGPA of 2.00 to be considered for graduation. Students who are required to withdraw from the Faculty may be authorized to continue in their program by the Faculty Admissions Committee if there are exceptional reasons for the required withdrawal.

### 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:** 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, a three-credit course usually indicates ten hours of lectures per week starting in either the May, June, or July session and spanning a maximum period of five weeks.

## 1.5.3 Grading and Grade Point Averages (GPA)

**Note for Physical and Occupational Therapy:** A grade of C+ is a minimum required passing grade for courses with the subject codes of OCC1, PHTH, and POTH. A grade of C is a minimum required passing grade for all other courses. For complete details, refer to the Rules and Regulations, available at [www](#)





### 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; deadline extended for submission of work in a course
KE or K*	—	further extension granted
KF	—	failed to meet the extended deadline for submission of work in a course; calculated as a failure in TGPA and CGPA
KK	—	completion requirement waived; not calculated in TGPA or CGPA
L	—	deferred examination
LE or L*	—	permitted to defer examination for more than the normal period
NR	—	no grade reported by the instructor (recorded by the Registrar)
P	—	pass; not calculated in TGPA or CGPA
Q	—	course continued in next term (applicable only to courses taken pre-Fall 2002)
S	—	satisfactory; equivalent to C or better in an elective course; not calculated in TGPA or CGPA (See <a href="#">Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option</a> )
U	—	unsatisfactory; equivalent to D or F in an elective course; not calculated in TGPA or CGPA (See <a href="#">Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option</a> )
W	—	withdrew; a course dropped, with permission, after the Course Change deadline; not calculated in TGPA or CGPA
WF	—	withdrew failing; a course dropped, with special permission in an exceptional case, after faculty deadline for withdrawal from course, the student's performance in the course at that stage being on the level of an F; not calculated in TGPA or CGPA (Not used by Music.)
WL	—	faculty permission to withdraw from a deferred examination; not calculated in TGPA or CGPA
	—	grade not yet available



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



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



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

#### 1.5.4.3 Official Transcripts

For more information on transcripts, applicable costs, delivery method, and processing time, see [www.mcgill.ca/student-records/transcripts](http://www.mcgill.ca/student-records/transcripts).

**Currently Registered Students:** Use [Minerva](#) to order an official transcript at *Student Menu > Student Records Menu > Request Printed/Official Transcript*.

**Alumni or former students who were registered or graduated as of 1972 or later:** You **must** submit your request in [Minerva](#) at *Student Menu > Student Records Menu > Request Printed/Official Transcript*

**Faculty of Arts and Science (including B.A. & Sc.):** An instructor who believes that there is justification for a student to delay the submission of work until after the end of the course. In this case, the instructor will submit a grade of "K" (incomplete), which indicates that the student's work is to be completed. The maximum extensions for the submission of grades are as follows:

**Non-graduating students**

Fall courses	April 30
Multi-term courses	July 30
Winter courses	November 30

Instructors may impose earlier deadlines than those listed above.

If the above deadlines are not met, the K is automatically changed to a KF and counts as an F in the GPA.

In extenuating circumstances, students may request an extension of the K deadline (KE) from the Associate Dean (Student Affairs).

For more information, see [University Regulations and Resources > Undergraduate > Student Records > section 1.5.3: Grading and Grade Point Averages \(GPA\)](#).

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 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 \(GPA\)](#).



## 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 B.C.L./LL.B. degree program may be obtained in appropriate courses offered by other McGill faculties or other universities, with the approval of the appro

## 1.5.7 Verification of Student Records: Degree Evaluation

*Degree Evaluation* is a Minerv

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

## 1.6.4 Final Examinations

Formal final examinations are held during an examination period at the end of the course term. The dates of the examination periods are listed at [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).



**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 [www.mcgill.ca/summer/finalexams](http://www.mcgill.ca/summer/finalexams).

In some courses there is no final examination; your Standing in these courses is determined by term work and class tests.

### 1.6.4.1 Final Examinations: University Regulations Concerning Final Examinations

#### 1.6.4.1.1 Preamble

The objectives of these regulations are as follows:

1. to protect students from excessive workloads;
2. to use the full 15-week term to maximum advantage.

#### 1.6.4.1.2 Regulations

1. These regulations shall apply to undergraduate courses up to and including the 500 level that are ev



#### 1.6.4.2 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,

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
- La

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  <i>Minerva</i>	Consult with your <i>Graduate department</i>  In person at Law <i>Student Affairs (3644 Peel, room 433)</i>	Departmental Supervisor  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](http://mcgill.ca/servicepoint/current-student-contact-form) and selecting the option "Final Exams".
- Students from all other Faculties must submit documents directly to their *Faculty Student Affairs Office*.

## **Step 4: Understanding your decision (approved or refused)**

### **If your deferred exam request is approved**

- It is your responsibility to verify the Deferred Exam schedule for the exact date, time, and location of your exam. The schedule will be posted at [www.mcgill.ca/exams](http://www.mcgill.ca/exams) approximately two weeks prior to your deferred exam period.
  - Exams deferred from the **December exam period** (i.e., from the Fall term) are scheduled in the **Winter term study break**.
  - Exams deferred from the **April exam period** (i.e., from the Winter term) are scheduled in the **3<sup>rd</sup> week of August**.
  - You are **expected to be available during a deferred exam period** to write your exam.
- **You can only defer your final exam once.** If you request a late course withdrawal (late-W) from a course with an approved exam deferral and the reasons for the late-W are similar to those for your deferred exam request, then your request will not be granted.
- If you requested a deferred exam and then ended up writing the original final exam, **you will no longer be eligible to write the deferred exam**, even if your request was approved. It is your responsibility to inform your Student Affairs office (or Service Point, for Arts and Science students) that you wrote the final exam at the originally scheduled time. Failure to meet this obligation may place you in violation of the *Code of Student Conduct* and may involve disciplinary measures.
- **Take measures to avoid similar issues arising in your next exam period.** If you have a chronic condition or disability that may affect your performance on exams, you should contact your Student Affairs office for support and accommodations.

- Email your statement - including PDF-formatted supporting documents - to [servicepoint@mcgill.ca](mailto: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 Faculty.
- Decisions made by this committee **are final**.



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



**Note for the Faculty of Agricultural and Environmental Sciences:** The Faculty offers deferred exams for medical reasons and exceptional circumstances (to be approved by the Associate Dean (Student Affairs)) for the Fall and Winter periods. Verify dates on the Important Dates website at [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates), apply on Minerva, and provide medical documentation to the Student Affairs Office.

**Note for the Faculty of Engineering**

- The Faculty of Engineering does not grant extensions to deferred examinations. Students who are unable to write their deferred exam must contact the McGill Engineering Student Centre before the deferred exam application deadline.

#### 1.6.4.2.1.1 Non-Engineering Courses

Deferred examinations for courses administered by the following faculties and schools are offered during the supplemental/deferred examination period:

- Agricultural and Environmental Sciences
- Arts
- Education
- Management
- Religious Studies
- Science (courses administered by the Faculty of Science, including Year 0 math and science courses)
- Social Work

The supplemental/deferred examination schedule is available at [www.mcgill.ca/exams/dates/supdefer](http://www.mcgill.ca/exams/dates/supdefer).

#### 1.6.4.2.1.2 School of Continuing Studies Courses

Deferred exams for courses administered by the School of Continuing Studies are offered during the next term's final examination period. The final examination schedule for School of Continuing Studies courses is available at [www.mcgill.ca/continuingstudies/exams](http://www.mcgill.ca/continuingstudies/exams).

#### 1.6.4.2.1.3 Summer Studies

For courses offered in the Summer term, you must submit a detailed request for a deferral by email to [examdeferral.engineering@mcgill.ca](mailto:examdeferral.engineering@mcgill.ca) **within one week or 5 working days following the missed exam.**

You must also submit **complete** supporting documentation to the Engineering Student Centre (Frank Dawson Adams Building, Room 22), **within one week or 5 working days following the missed exam.**

For courses administered by the Faculty of Engineering, the deferred examination is written during the final examination period the next time the course is offered.

For non-Engineering courses, the deferred examination schedule is available at [www.mcgill.ca/exams/dates/supdefer](http://www.mcgill.ca/exams/dates/supdefer)

For students pursuing a *Bachelor of Arts*, *Bachelor of Science*, or *Bachelor of Arts & Science*:

- 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 Faculty of Arts or Science must submit final exam reread requests directly to the Student Affairs Office of their Faculty for approval.

Reassessments and rereads in courses not in the Faculties of Arts and Science are subject to the deadlines, rules, and regulations of their relevant faculties.

**Reassessments and Rereads:**

- 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 should consult the instructor before you write the supplemental examination;
- The supplemental result may or may not include the same proportion of class work as did the original grade; the instructor will announce the arrangements to be used for the course by the end of the Course Change Period;
- The supplemental grade will not replace the grade originally obtained, which is used in calculating the GPA; both the original grade and the supplemental result will be calculated in the CGPA;
- For courses in which both a supplemental examination and additional work are available, you may choose the additional work, or the examination, or both; where both are written, only one supplemental grade will be submitted, reflecting grades for both the supplemental examination and the additional work;
- There are no supplemental examinations for Summer Studies courses;
- Additional credit will not be given for a supplemental exam where the original grade for the course was a D and you already received credit for the course;
- No supplemental examinations are available if you fail to achieve a satisfactory grade in a course where you have written a deferred examination;
- Supplemental examinations in courses outside your faculty are subject to the deadlines, rules, and regulations of the relevant faculty.

You must frequently verify the status of your supplemental exam application on Minerva for any additional information required by your Student Affairs Office or Service Point. Once your application has been approved, you will receive a confirmation email at your McGill email address.

If you register for a supplemental examination but find yourself unprepared for it, you should not write the exam; except for the loss of the application fee, there is no penalty for missing a supplemental examination. You should consult your Student Affairs Office for further information. It is important that you also see a Faculty adviser to talk about your options and the effects that your request may have on your studies. For more information, see [www.mcgill.ca/students/advising](http://www.mcgill.ca/students/advising).

You must verify the date and time of the supplemental examination, and make yourself available to write the e



- additional work in courses outside the Faculty of Science (including B.A. & Sc.) is subject to the deadlines, rules, and regulations of the relevant faculty.



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

### 1.6.5 Examinations: Invigilation (Exams from Other Universities)

Upon request, McGill will act as proctor for exams from other universities or professional accreditation associations. Exams are scheduled on weekdays at 10:00 a.m., and cannot be scheduled on evenings, weekends, statutory holidays, or McGill holidays.

Please consult the [Exams website](#) for complete information on fees, payment, and how to arrange for a proctor exam at McGill.

#### 1.6.5.1 Contact Information

Telephone: 514-398-2207

Email: [proctor.es@mcgill.ca](mailto:proctor.es@mcgill.ca)

Website: [www.mcgill.ca/exams/dates/proctor](http://www.mcgill.ca/exams/dates/proctor)

### 1.6.6 Faculty of Engineering Policy on Use of Calculators in Faculty Tests and Examinations

The use of calculators during tests and examinations is at the discretion of the course instructor. If a calculator is permitted in the examination, you are required to use one of the following calculators:

- CASIO fx-100MS
- CASIO fx-115MS
- CASIO fx-260
- CASIO fx-300MSPlus
- CASIO fx-570MS
- CASIO fx-991MS
- CASIO fx-992S
- SHARP EL-510
- SHARP EL-520
- SHARP EL-531
- SHARP EL-546 (all extensions are acceptable for SHARP calculators)
- TI-30XIIS

No other calculators will be permitted, regardless of their level of sophistication, unless otherwise stated by the examiner. **Non-regulation calculators will be removed and no replacement calculator will be provided.** You are expected to own one of the above-listed Faculty of Engineering Standard Calculators.

For more information, see

[www.mcgill.ca/engineering/students/current-students/undergraduate/courses-registration/exams-assessment/faculty-standard-calculators](http://www.mcgill.ca/engineering/students/current-students/undergraduate/courses-registration/exams-assessment/faculty-standard-calculators).

### 1.6.7 Laptop Examination Policy for the Faculty of Law

All students wishing to write one or more final examinations on their laptop must:

1. ensure laptop compatibility with Faculty-approved software;
2. complete the Faculty of Law Laptop Examination Agreement;
3. download the Faculty-approved software;
4. run a test prior to the start of the examination period;
5. if necessary, sign an *IST Customer Services-Computer Repair Waiver*.

The Student Affairs Office will provide term-specific deadlines. You will not be permitted to use a laptop unless you have fulfilled the above requirements. You must ensure that the laptop you are using meets the minimum requirements for the software as specified by the Student Affairs Office, as posted on the [SAO website](#) and [myCourses](#). Students using laptops will not be placed in separate examination rooms. You may opt out of using your laptop at any point, even once the examination has started, and revert to handwriting.

First-year students are required to attend the examination information session and software download session during the Fall term; dates will be provided by the SAO.

Students considering updating their laptop's operating system should consult the Student Affairs office in advance, to ensure that the new version of the operating system is compatible with the examination software.

#### **1.6.7.1 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



**Note for Music students:** For further information, contact the Schulich School of Music Student Affairs Office and see [www.mcgill.ca/music/student-resources/undergraduates/learning-abroad](http://www.mcgill.ca/music/student-resources/undergraduates/learning-abroad).

### 1.7.3 Field Studies

For information on Field Studies, refer to *Study Abroad & Field Studies*.

### 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 McGill's *International Education* 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 [www.mcgill.ca/mcgillabroad](http://www.mcgill.ca/mcgillabroad).

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## 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 [www.mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships](http://www.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 achievement; and the renewable Major, based on academic achievement as well as leadership qualities in school and/or community activities.

#### 1.8.1.1 Application Procedures

- **One-Year Scholarships:** by applying to McGill, all eligible applicants who meet the minimum academic requirements are automatically considered. No separate application is required. For more information, see [www.mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships/criteria](http://www.mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships/criteria).
- **Major (renewable) Scholarships:** candidates can apply on the web by the scholarship deadline dates after their application for admission has been submitted and they have received an email acknowledgment.
- You must ensure that you send in all required supporting documentation; please refer to [www.mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships/application-instructions](http://www.mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships/application-instructions).
- The Faculties of Dentistry, Law, Medicine, and Music administer their own entrance award programs. Applicants should inquire at their respective faculty's admissions office regarding availability and procedures.
- If you hold a renewable scholarship from the Committee on Enrolment and Student Affairs, the scholarship is renewed only if you meet the McGill standards for renewal. See [www.mcgill.ca/studentaid/scholarships-aid/regulations-responsibilities/regulations](http://www.mcgill.ca/studentaid/scholarships-aid/regulations-responsibilities/regulations).

#### 1.8.1.2 Need-Based Entrance Financial Aid

This program offers financial aid to students from families of modest means who require assistance to attend McGill. Upon acceptance to the University, first-year, undergraduate degree students can apply for an entrance bursary on Minerva. Entrance bursaries range in value and are determined by the level of need demonstrated by the student/family and the tuition fee rate charged based on student residency and program of study. Since financial need is the primary factor in the selection of aid recipients, applicants for this program are expected to apply for government student aid programs where eligible. For more information, see [www.mcgill.ca/studentaid](http://www.mcgill.ca/studentaid).

### 1.8.2 In-Course Awards for McGill Students

Faculty scholarships and awards are decided by the faculty scholarships committees. You should consult the appropriate section of the *Undergraduate Scholarships and Awards Calendar* for regulations and information concerning these awards at [www.mcgill.ca/studentaid/scholarships-aid/current-undergrads](http://www.mcgill.ca/studentaid/scholarships-aid/current-undergrads).

- 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 and/or the renewal of entrance scholarships, you must complete at least 27 graded credits in the regular academic year. 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.
- Up to a maximum of 6 credits from courses taken at other Quebec universities through the Inter-University Transfer (IUT) agreement can be counted toward the requirements for scholarship renewal or for consideration for other academic awards. Eligibility is based on all courses taken during the regular academic year, on both the McGill GPA and the global GPA, which includes the IUT credits. Please consult [www.mcgill.ca/students/iut](http://www.mcgill.ca/students/iut).
- You should review all regulations regarding in-course awards by consulting [www.mcgill.ca/studentaid/scholarships-aid/regulations-responsibilities/regulations](http://www.mcgill.ca/studentaid/scholarships-aid/regulations-responsibilities/regulations).
- A maximum of the top 10% of students in each faculty are named to the Dean's Honour List. This designation is based on the combined GPA for the Fall and Winter terms (i.e., your sessional GPA) and the minimum required combined GPA is determined by each faculty. It is an official University recognition of your achievements and appears on your transcript. There is no monetary reward.
- All awards, with the exception of convocation prizes, are credited to students' tuition fee accounts for the following academic year. Students must be registered on a full-time basis to receive the funds.
- If you hold a renewable scholarship from the Committee on Enrolment and Student Affairs, it will *only* be renewed if you meet the McGill standards for renewal. See [www.mcgill.ca/studentaid/scholarships-aid/regulations-responsibilities/regulations](http://www.mcgill.ca/studentaid/scholarships-aid/regulations-responsibilities/regulations).

### 1.8.2.1 In-Course Financial Aid

The University offers an In-Course Financial Aid program to full-time undergraduate degree students on the basis of demonstrated financial need. This aid includes bursaries, short- and long-term loans, and a Work Study Program. To be considered for McGill financial aid, the University recommends that applicants apply for the maximum government student assistance for which they are eligible. The Scholarships and Student Aid Office also organizes all provincial, federal, and U.S. student aid programs and disburses government funds.

Student Aid Counsellors are available for consultation on an individual basis to provide advice on budgeting and debt management, and to award financial assistance to needy and deserving students. For more information, see [www.mcgill.ca/studentaid](http://www.mcgill.ca/studentaid).

### 1.8.3 Work Study Program

The Work Study Program provides students with financial assistance through part-time employment on campus. Students are accepted into the program based primarily on financial need, though Academic Standing is also considered. There are a v

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

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

### **Minimum Residency Requirement**

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

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

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



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

- You must successfully complete a minimum of 21 McGill credits (excluding prerequisites and corequisites) in order to obtain a McGill undergraduate certificate. For specific information refer to your department section of this publication.
- Students completing a second undergraduate certificate at McGill must successfully complete a minimum of 21 McGill credits (excluding

## 1.9.2 Graduation Approval Query

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

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

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

See [www.mcgill.ca/graduation/convocation](http://www.mcgill.ca/graduation/convocation) for information regarding convocation ceremonies.

**Note for Medicine and Dentistry:** The

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 Office for Undergraduate Research in 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 the Office for Undergraduate Research in Science 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 *First-Class Honours*, the CGPA at graduation must be 3.50 or better;
- students in a Joint Honours program must satisfy the above criteria for both Joint Honours components;
- some departments have additional requirements which must be met before you are recommended for *Honours* or *First-Class Honours* (see the departmental entries).

Students in an Honours program whose program GPA or CGPA is below 3.00, or who did not satisfy certain additional program requirements, must consult their adviser to determine if they are eligible to graduate in a program other than Honours.

### **1.9.3.5 Honours and First Class Honours for Faculty of Agricultural and Environmental Sciences**

Departments may recommend to the Faculty that graduating students registered in an honours program be awarded Honours or First-Class Honours under the following conditions:

- you must complete all honours program requirements; for Honours, the CGPA at graduation must be at least 3.00;
- for First-Class Honours, the CGPA at graduation must be at least 3.50;
- some programs may impose additional requirements, which must be met before you are recommended for Honours or First-Class Honours.

Students in an honours program whose CGPA is below 3.00, or who did not satisfy certain program requirements, must consult their academic adviser to determine their eligibility to graduate in a program other than Honours.

## **1.9.4 Replacing a Diploma**

### **1.9.4.1 Required Documents**

#### **Replacing a lost diploma**

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

#### **Requesting a diploma or modifying your name**

You must provide a written request including your full name, address, phone number, and date of birth, as well as your degree and the year it was granted. For name changes, upload a photocopy of your birth certificate, change of name certificate, marriage certificate, proof of divorce, or other legal documents

### 1.9.4.3 Certified Copies

Enrolment Services will certify copies of your diploma in the original language or issue certified translations in English (from the original Latin) or French (from the original in English or Latin).

#### Submitting your request for a certified copy

There are two ways to submit a request:

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



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

### 1.9.5 Aegrotat Standing and Degree at McGill University

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

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

Aegrotat Standing is rarely granted at McGill University. A formal request must be submitted to the Dean of the faculty in which the student is registered during the graduating year. The approval of the Dean and the Deputy Pro



## Professional Groups

Agrologists	Lawyers
Architects	Licensed General Accountants
Chartered Accountants	Nurses
Chartered Appraisers	Occupational Therapists
Chemists	Physicians
Dentists	Physiotherapists
Dietitians	Psychologists
Engineers	Social Workers
Geologists	Speech Therapists and Audiologists
Industrial Administration Accountants	Urbanists
Industrial Relations Counsellors	Vocational Guidance Counsellors

### 1.10.2 Graduate Programs

McGill University offers over 250 Doctoral and Master's degree programs in more than 85 fields of study. We award degrees in a full range of academic disciplines, and are committed to providing you with an excellent graduate education and a rewarding student experience.

Please see [www.mcgill.ca/gradapplicants](http://www.mcgill.ca/gradapplicants) to learn about graduate programs, research, admission requirements, and funding opportunities. You can also view the Graduate sections of a faculty or school at [Faculties & Schools > Graduate](#).

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### 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](#).

You will find **program requirements** in your faculty section or in departmental sections within a faculty. In some cases, you may pursue one of your programs in a department outside your faculty. For example, if you are enrolled in a Bachelor of Commerce, but are pursuing a minor concentration in Italian Civilization, you would consult the Desautels Faculty of Management section for the B.Com. requirements, and the Italian Studies department section, under the Faculty of Arts, for the Italian Civilization program requirements.

#### **1.11.1.4 Important things to know about your academic program:**

- The number of credits needed to complete your academic program or programs and, ultimately, your degree. Typically, three credits correspond to a one-term course, but there are many v

- 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** ([www.mcgill.ca/students/advising](http://www.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; [www.mcgill.ca/firstyear](http://www.mcgill.ca/firstyear)) can help new students navigate their way through this publication and the information provided to new students; see [www.mcgill.ca/accepted](http://www.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; [www.mcgill.ca/wellness-hub](http://www.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 [www.mcgill.ca/LWA](http://www.mcgill.ca/LWA) to find the right adviser for you.

**Career Planning** Ser1 0 0 4341 0605.51515t63 81.dn, and resourc.52 417.77(acss ) 04 tc3Lacs81.93.pn96.971 480.88 Tm( (Bro)Tj1 0 0 1 213.606 4801(.)Tjetheir

## Faculty of Dentistry

2001 McGill College Avenue  
Telephone: 514-398-7203  
Email: [undergrad.dentistry@mcgill.ca](mailto:undergrad.dentistry@mcgill.ca)  
Website: [www.mcgill.ca/dentistry](http://www.mcgill.ca/dentistry)

## Faculty of Education

Internships & Student Affairs Office (ISA)  
Telephone: 514-398-7042 (for student affairs)  
Telephone: 514-398-7046 (for internships)  
Email: [isa.education@mcgill.ca](mailto:isa.education@mcgill.ca)  
Website: [www.mcgill.ca/isa](http://www.mcgill.ca/isa)

## Faculty of Engineering

*McGill Engineering Student Centre* (Student Aff

## Faculty of Medicine

Website: [www.mcgill.ca/thewelloffice](http://www.mcgill.ca/thewelloffice)

## Ingram School of Nursing

Undergraduate Nursing Student Affairs Office (UG-NSAO)

Telephone: 514-398-4159 or 514-398-3784

Email: [undergraduate.nursing@mcgill.ca](mailto:undergraduate.nursing@mcgill.ca) or [student-affairs-officer.nursing@mcgill.ca](mailto:student-affairs-officer.nursing@mcgill.ca)

Website: [www.mcgill.ca/nursing/students](http://www.mcgill.ca/nursing/students)

## School of Physical and Occupational Therapy

Telephone: 514-398-4500

Email: [undergrad.spot@mcgill.ca](mailto:undergrad.spot@mcgill.ca)

Website: [www.mcgill.ca/spot/about/contact-us](http://www.mcgill.ca/spot/about/contact-us)

## Schulich School of Music

Telephone: 514-398-4541

Email: [studentaffairs.music@mcgill.ca](mailto:studentaffairs.music@mcgill.ca)

Website: [www.mcgill.ca/music/student-resources/undergraduates](http://www.mcgill.ca/music/student-resources/undergraduates)

## Faculty of Science

Science Office for Undergraduate Student Advising (SOUSA)

Telephone: 514-398-5442

Email: [newstudentadvising.science@mcgill.ca](mailto:newstudentadvising.science@mcgill.ca) for newly admitted students only

Email: [adviser.science@mcgill.ca](mailto:adviser.science@mcgill.ca)

Website: [www.mcgill.ca/science/student](http://www.mcgill.ca/science/student)

Students in U1 or above should also see the contact information for departmental academic advisers in [section 1.11.4.6: Faculty of Science: Contact Information](#).

### 1.11.4 Contact Information for Departments, Schools, and Programs

Refer to the following contact information to get in touch with a faculty's specific department, school, or program representative.

#### 1.11.4.1 Faculty of Agricultural and Environmental Sciences: Contact Information

All students in the Faculty of Agricultural and Environmental Sciences are required to meet with an academic adviser prior to the start of classes.

Additional contact information is located in the relevant sections of this publication.

**Bachelor of Science in Agricultural and Environmental Sciences**

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

**Major Environment (MSE)**

Kathryn Roulet

Telephone: 514-398-4306

Email: [kathryn.roulet@mcgill.ca](mailto:kathryn.roulet@mcgill.ca)

**Bachelor of Engineering in Bioresource Engineering – B.Eng.(Bioresource)**

**Freshman U0**

Dr. David Titley-Péloquin

Telephone: 514-398-7976

Email: [freshmanadvisor.macdonald@mcgill.ca](mailto:freshmanadvisor.macdonald@mcgill.ca)

**Bioresource U1, U2, and U3**

Dr. Shiv Prasher

Telephone: 514-398-7774

Email: [shiv.prasher@mcgill.ca](mailto:shiv.prasher@mcgill.ca)

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

**Freshman U0**

Dr. Alice Cherestes

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

### Dietetics

Paul-Guy Duhamel

Email: [paul-guy.duhamel@mcgill.ca](mailto:paul-guy.duhamel@mcgill.ca)

Mary Hendrickson

Telephone: 514-398-7749

Email: [mary.hendrickson-nelson@mcgill.ca](mailto:mary.hendrickson-nelson@mcgill.ca)

Dr. Hugues Plourde

Telephone: 514-398-7604

Email: [hugues.plourde@mcgill.ca](mailto:hugues.plourde@mcgill.ca)

Dr. Maureen Rose

Telephone: 514-398-7748

Email: [maureen.rose@mcgill.ca](mailto:maureen.rose@mcgill.ca)

Joane Routhier

Telephone: 514-398-7749

Email: [joane.routhier@mcgill.ca](mailto:joane.routhier@mcgill.ca)

### Nutrition

Christine Gurekian

Telephone: 514-398-7842

Email: [christinenadia.gurekian@mcgill.ca](mailto:christinenadia.gurekian@mcgill.ca)

### Nutrition (transfer from Dietetics)

Dr. Linda Wykes

Telephone: 514-398-7843

Email: [linda.wykes@mcgill.ca](mailto:linda.wykes@mcgill.ca)

### Nutrition (transfer from concurrent)

Dr. Stan Kubow

Telephone: 514-398-7754

Email: [stan.kubow@mcgill.ca](mailto:stan.kubow@mcgill.ca)

## Concurrent B.Sc.(F.Sc.) & B.Sc.(Nutr.Sc.)

### Freshman U0

Dr. Alice Cherestes

Telephone: 514-398-7980

Email: [frFFF](mailto:frFFF)





## Minors

### **Applied Ecology**

Dr. Julie Major

Telephone: 514-398-8380

Email: [julie.major@mcgill.ca](mailto:julie.major@mcgill.ca)

### **Ecological Agriculture**

Dr. Caroline Begg

Telephone: 514-398-8749

Email: [caroline.begg@mcgill.ca](mailto:caroline.begg@mcgill.ca)

### **Environment (MSE)**

Kathryn Roulet

Telephone: 514-398-4306

Email: [kathryn.roulet@mcgill.ca](mailto:kathryn.roulet@mcgill.ca)

### **Environmental Engineering**

Dr. Shiv Prasher

Telephone: 514-398-7774

Email: [shiv.prasher@mcgill.ca](mailto:shiv.prasher@mcgill.ca)

### **Human Nutrition**

Dr. Kristine Koski

Telephone: 514-398-7845

Email: [kris.koski@mcgill.ca](mailto:kris.koski@mcgill.ca)

### **International Agriculture**

Dr. Julie Major

Telephone: 514-398-8380

Email: [julie.major@mcgill.ca](mailto:julie.major@mcgill.ca)

#### **1.11.4.2 Faculty of Arts: Contact Information**

**U0 students:** Contact the Faculty of Arts Student Affairs Office for advising on the Arts Freshman program.

**U1 students or any other year:** Contact the department (school or program) directly for academic advising. You can find additional contact information in the relevant sections of this publication.

#### **Art History & Communication Studies (Department of)**

Telephone: 514-398-1828  
Email: [undergrad.ahcs@mcgill.ca](mailto:undergrad.ahcs@mcgill.ca)  
Website: [www.mcgill.ca/ahcs](http://www.mcgill.ca/ahcs)

#### **Canadian Studies (program)**

Telephone: 514-398-8346  
Email: [misc.iecm@mcgill.ca](mailto:misc.iecm@mcgill.ca)  
Website: [www.mcgill.ca/misc](http://www.mcgill.ca/misc)

#### **Classics (program)**

Telephone: 514-398-3065  
Email: [undergrad.history@mcgill.ca](mailto:undergrad.history@mcgill.ca) or [diana.sooklall@mcgill.ca](mailto:diana.sooklall@mcgill.ca)  
Website: [www.mcgill.ca/classics](http://www.mcgill.ca/classics)

#### **Computer Science (School of)**

Telephone: 514-398-7071, ext. 00739  
Email: [undergraduate.secretary@cs.mcgill.ca](mailto:undergraduate.secretary@cs.mcgill.ca)  
Website: [www.cs.mcgill.ca](http://www.cs.mcgill.ca)

#### **East Asian Studies (Department of)**

Telephone: 514-398-3650  
Email: [asian.studies@mcgill.ca](mailto:asian.studies@mcgill.ca)  
Website: [www.mcgill.ca/eas](http://www.mcgill.ca/eas)

#### **Economics (Department of)**

Telephone: 514-398-3030  
Email: [undergraduate.economics@mcgill.ca](mailto:undergraduate.economics@mcgill.ca)  
Website: [www.mcgill.ca/economics](http://www.mcgill.ca/economics)

#### **Education for Arts Students (program)**

Telephone: 514-398-7042  
Email: [isa.education@mcgill.ca](mailto:isa.education@mcgill.ca)  
Website: [www](http://www)

### Environment (School of)

Telephone: 514-398-4306  
Email: [kathryn.roulet@mcgill.ca](mailto:kathryn.roulet@mcgill.ca)  
Website: [www.mcgill.ca/mse](http://www.mcgill.ca/mse)

### European Studies (program)

Telephone: 514-398-3650  
Email: [stephanie.posthumus@mcgill.ca](mailto:stephanie.posthumus@mcgill.ca)  
Website: [www.mcgill.ca/langlitcultures](http://www.mcgill.ca/langlitcultures)

### French Language and Literature (Department of)

Telephone: 514-398-3772  
Email: [undergrad.litfran@mcgill.ca](mailto:undergrad.litfran@mcgill.ca)  
Website: [www.mcgill.ca/litterature/fr](http://www.mcgill.ca/litterature/fr)

### Gender, Sexuality, Feminist and Social Justice Studies (program)

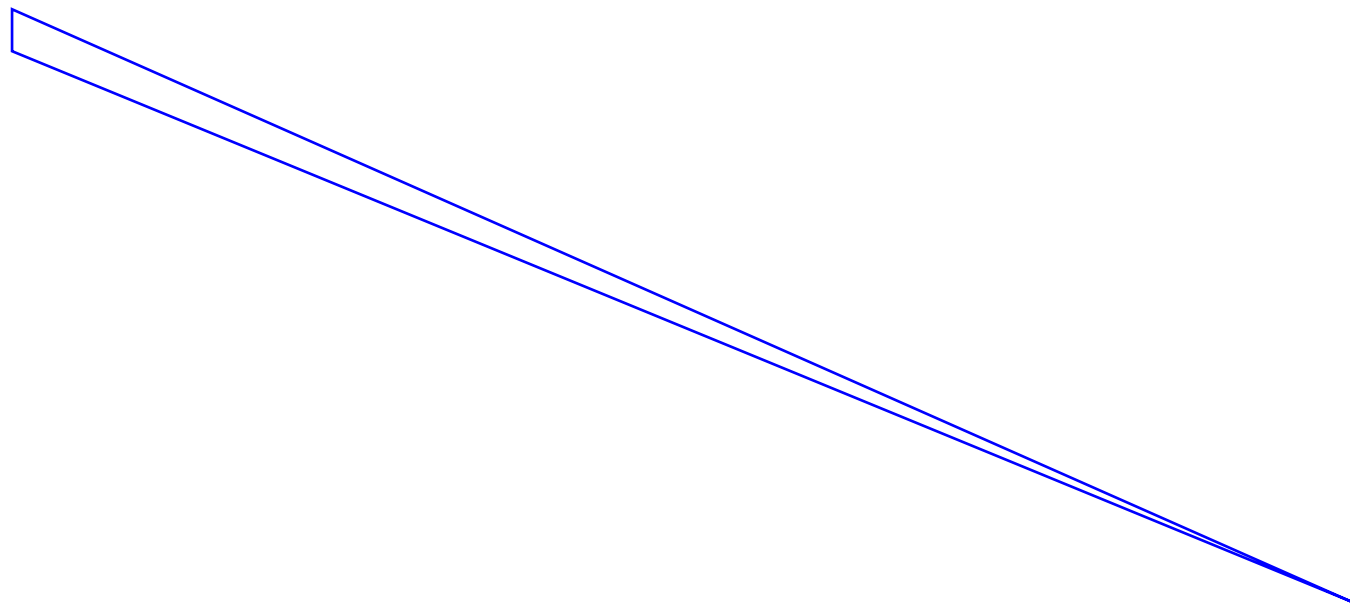
Telephone: 514-398-3911  
Email: [info.igsf@mcgill.ca](mailto:info.igsf@mcgill.ca)  
Website: [www.mcgill.ca/igsf/programs/gsf](http://www.mcgill.ca/igsf/programs/gsf)

### Geography (Department of)

Telephone: 514-398-4951 or 398-4111  
Email: [undergrad.geog@mcgill.ca](mailto:undergrad.geog@mcgill.ca) or [advisor.geog@mcgill.ca](mailto:advisor.geog@mcgill.ca)  
Website: [www.mcgill.ca/geography](http://www.mcgill.ca/geography)

### German Studies (program)

Telephone: 514-398-3650  
Email: [info.llcu@mcgill.ca](mailto:info.llcu@mcgill.ca)  
Website: [www.mcgill.ca/llcu](http://www.mcgill.ca/llcu)



**Industrial and Labour Relations (program)**

Telephone: 514-398-4400, ext. 09557  
Email: [nellie.voudouris@mcgill.ca](mailto:nellie.voudouris@mcgill.ca)  
Website: [www.mcgill.ca/indr](http://www.mcgill.ca/indr)

**Information Studies (School of)**

Telephone: 514-398-4204  
Email: [sis@mcgill.ca](mailto:sis@mcgill.ca)  
Website: [www.mcgill.ca/sis](http://www.mcgill.ca/sis)

**International Development Studies (program)**

Telephone: 514-398-4804  
Email: [ids@mcgill.ca](mailto:ids@mcgill.ca)  
Website: [www.mcgill.ca/isid/teaching-programs/undergraduate/intd](http://www.mcgill.ca/isid/teaching-programs/undergraduate/intd)

**Islamic Studies (Institute of)**

Telephone: 514-398-6077  
Email: [info.islamics@mcgill.ca](mailto:info.islamics@mcgill.ca)  
Website: [www.mcgill.ca/islamicstudies](http://www.mcgill.ca/islamicstudies)

**Italian Studies (program)**

Telephone: 514-398-3650  
Email: [info.llcu@mcgill.ca](mailto:info.llcu@mcgill.ca) or [lucienne.kroha@mcgill.ca](mailto:lucienne.kroha@mcgill.ca)  
Website: [www.mcgill.ca/langlitcultures/about/italian-studies](http://www.mcgill.ca/langlitcultures/about/italian-studies)

**Jewish Studies (program)**

Telephone: 514-398-6543  
Email: [mitali.das@mcgill.ca](mailto:mitali.das@mcgill.ca)  
Website: [www.mcgill.ca/jewishstudies](http://www.mcgill.ca/jewishstudies)

**Languages, Literatures, and Cultures (Department of)**

Telephone: 514-398-3650  
Email: [info.llcu@mcgill.ca](mailto:info.llcu@mcgill.ca)  
Website: [www.mcgill.ca/langlitcultures](http://www.mcgill.ca/langlitcultures)

**Latin American and Caribbean Studies (program)**

Telephone: 514-398-4804  
Email: [ids@mcgill.ca](mailto:ids@mcgill.ca)  
Website: [www.mcgill.ca/isid/teaching-programs/undergraduate/lacs](http://www.mcgill.ca/isid/teaching-programs/undergraduate/lacs)

**Liberal Arts (program)**

Telephone: 514-398-4400, ext. 09557  
Email: [nellie.voudouris@mcgill.ca](mailto:nellie.voudouris@mcgill.ca)  
Website: [www.mcgill.ca/langlitcultures/programs/liberal-arts-program](http://www.mcgill.ca/langlitcultures/programs/liberal-arts-program)

### **Linguistics (Department of)**

Telephone: 514-398-4222

Email: [dept.linguistics@mcgill.ca](mailto:dept.linguistics@mcgill.ca)

Website: [www.mcgill.ca/linguistics](http://www.mcgill.ca/linguistics)

### **Mathematics & Statistics (Department of)**

Telephone: 514-398-3800

Email: [ugrad.mathstat@mcgill.ca](mailto:ugrad.mathstat@mcgill.ca) or [angela.white@mcgill.ca](mailto:angela.white@mcgill.ca)

Website: [www.mcgill.ca/mathstat](http://www.mcgill.ca/mathstat)

### **Medieval Studies (program)**

Telephone: 514-398-4400, ext. 09557

Email: [nellie.voudouris@mcgill.ca](mailto:nellie.voudouris@mcgill.ca)

Website: [www.mcgill.ca/medieval](http://www.mcgill.ca/medieval)

### **Music (program)**

Telephone: 514-398-4535, ext. 6337

Email: [dino.dutz@mcgill.ca](mailto:dino.dutz@mcgill.ca)

Website: [www.mcgill.ca/music](http://www.mcgill.ca/music)

**Russian & Slavic Studies (program)**

Telephone: 514-398-3650  
Email: [info.llcu@mcgill.ca](mailto:info.llcu@mcgill.ca)  
Website: [www.mcgill.ca/langlitcultures/about/russian-studies](http://www.mcgill.ca/langlitcultures/about/russian-studies)

**Science for Arts Students (program)**

Telephone: 514-398-4109 or 514-398-4212  
Email: [nancy.nelson@mcgill.ca](mailto:nancy.nelson@mcgill.ca)  
Website: [biology.mcgill.ca/undergrad/minorprog\\_sciarts.html](http://biology.mcgill.ca/undergrad/minorprog_sciarts.html)

**Social Entrepreneurship (program)**

Telephone: 514-398-4400, ext. 09557  
Email: [nellie.voudouris@mcgill.ca](mailto:nellie.voudouris@mcgill.ca)  
Website: [www.mcgill.ca/socent](http://www.mcgill.ca/socent)

**Social Studies of Medicine (program)**

Telephone: 514-398-6668 or 398-6033  
Email: [dept.ssom@mcgill.ca](mailto:dept.ssom@mcgill.ca)  
Website: [www.mcgill.ca/ssom](http://www.mcgill.ca/ssom)

**Social Work (School of)**

Telephone: 514-398-7070  
Email: [undergraduate.socialwork@mcgill.ca](mailto:undergraduate.socialwork@mcgill.ca)  
Website: [www.mcgill.ca/socialwork](http://www.mcgill.ca/socialwork)

**Sociology (Department of)**

Telephone: 514-398-6868  
Email: [giovanna.terrasi@mcgill.ca](mailto:giovanna.terrasi@mcgill.ca)  
Website: [www.mcgill.ca/sociology](http://www.mcgill.ca/sociology)

**World Cinemas (program)**

Telephone: 514-398-4400, ext. 09557  
Email: [nellie.voudouris@mcgill.ca](mailto:nellie.voudouris@mcgill.ca)  
Website: [www.mcgill.ca/worldcinemas](http://www.mcgill.ca/worldcinemas)

**World Islamic and Middle East Studies (program)**

Telephone: 514-398-6077  
Email: [info.islamics@mcgill.ca](mailto:info.islamics@mcgill.ca)  
Website: [www.mcgill.ca/islamicstudies](http://www.mcgill.ca/islamicstudies)

**1.11.4.3 Faculty of Education: Contact Information**

All students in the Faculty of Education are required to meet with an academic adviser prior to the start of classes. Additional contact information is located in the relevant sections of this publication.

### **Kindergarten & Elementary Program**

Telephone: 514-398-4527

Email: [advisedise.education@mcgill.ca](mailto:advisedise.education@mcgill.ca)

### **Secondary English, Mathematics, Social Studies or Science & Technology**

Telephone: 514-398-4527

Email: [advisedise.education@mcgill.ca](mailto:advisedise.education@mcgill.ca)

### **Teaching English as a Second Language**

Telephone: 514-398-4527

Email: [advisedise.education@mcgill.ca](mailto:advisedise.education@mcgill.ca)

### **Music**

Telephone: 514-398-4527

Email: [advisedise.education@mcgill.ca](mailto:advisedise.education@mcgill.ca)

### **Physical & Health Education**

Telephone: 514-398-4184 ext. 09689

Email: [ugrad.kpe@mcgill.ca](mailto:ugrad.kpe@mcgill.ca)

### **Kinesiology**

Telephone: 514-398-4184 ext. 09689

Email: [ugrad.kpe@mcgill.ca](mailto:ugrad.kpe@mcgill.ca)

#### **1.11.4.4 Faculty of Engineering: Contact Information**

All students in the Faculty of Engineering are required to meet with an academic adviser prior to the start of classes.

**U0 students (seeking transfer cr**

**Chemical Engineering (Department of)**

Telephone: 514-398-5122 or 514-398-7257  
Email: [ugrad.chemeng@mcgill.ca](mailto:ugrad.chemeng@mcgill.ca)  
Website: [www.mcgill.ca/chemeng](http://www.mcgill.ca/chemeng)

**Civil Engineering and Applied Mechanics (Department of)**

Telephone: 514-398-6860  
Email: [ugradinfo.civil@mcgill.ca](mailto:ugradinfo.civil@mcgill.ca)  
Website: [www.mcgill.ca/civil](http://www.mcgill.ca/civil)

**Electrical and Computer Engineering (Department of)**

Telephone: 514-398-3943  
Email: [undergrad.ece@mcgill.ca](mailto:undergrad.ece@mcgill.ca)  
Website: [www.mcgill.ca/ece](http://www.mcgill.ca/ece)

**Mechanical Engineering (Department of)**

Telephone: 514-398-8070  
Email: [ugrad.mecheng@mcgill.ca](mailto:ugrad.mecheng@mcgill.ca)  
Website: [www.mcgill.ca/mecheng](http://www.mcgill.ca/mecheng)

**Mining and Materials Engineering (Department of)**

**Mining and Materials**  
Website: [www.mcgill.ca/minmat](http://www.mcgill.ca/minmat)

**Mining**  
Telephone: 514-398-2215  
Email: [admin.mining@mcgill.ca](mailto:admin.mining@mcgill.ca)  
Website: [www.mcgill.ca/mining](http://www.mcgill.ca/mining)

**Materials**  
Telephone: 514-398-1040  
Email: [coordinator.minmat@mcgill.ca](mailto:coordinator.minmat@mcgill.ca)  
Website: [www.mcgill.ca/materials](http://www.mcgill.ca/materials)

**Urban Planning (School of)**

Telephone: 514-398-4075  
Email: [admissions.planning@mcgill.ca](mailto:admissions.planning@mcgill.ca)  
Website: [www.mcgill.ca/urbanplanning](http://www.mcgill.ca/urbanplanning)

**1.11.4.5 Faculty of Medicine: Contact Information**

**U0 students:** Contact the Faculty of Medicine Student Affairs Office for advising.

**U1 students or any other year:** Contact the department (school or program) directly for academic advising.

Additional contact information is located in the relevant sections of this publication.

**Anatomy and Cell Biology**

Telephone: 514-398-6350



**Anatomy and Cell Biology**

Email: [anatomysec.med@mcgill.ca](mailto:anatomysec.med@mcgill.ca)  
Website: [www.mcgill.ca/anatomy](http://www.mcgill.ca/anatomy)

**Anesthesia**

Telephone: 514-934-1934, ext. 36423  
Email: [franca.romano@muhc.mcgill.ca](mailto:franca.romano@muhc.mcgill.ca)  
Website: [www.mcgill.ca/anesthesia](http://www.mcgill.ca/anesthesia)

**Artificial Cells and Organs Research Centre**

Email: [artcell.med@mcgill.ca](mailto:artcell.med@mcgill.ca)  
Website: [www.medicine.mcgill.ca/artcell](http://www.medicine.mcgill.ca/artcell)

**Biochemistry**

Telephone: 514-398-2423  
Email: [christine.laberge@mcgill.ca](mailto:christine.laberge@mcgill.ca)  
Website: [www.mcgill.ca/biochemistry](http://www.mcgill.ca/biochemistry)

**Biomedical Engineering**

Telephone: 514-398-6736  
Email: [info.bme@mcgill.ca](mailto:info.bme@mcgill.ca)  
Website: [www.mcgill.ca/bme](http://www.mcgill.ca/bme)

**School of Communication Sciences and Disorders**

Telephone: 514-398-4137  
Email: [scsd@mcgill.ca](mailto:scsd@mcgill.ca)  
Website: [www.mcgill.ca/scsd](http://www.mcgill.ca/scsd)

**Dermatology**

Website: [www.mcgill.ca/medicine](http://www.mcgill.ca/medicine)

**Diagnostic Radiology**

Telephone: 514-934-8084  
Email: [radiology.residency@muhc.mcgill.ca](mailto:radiology.residency@muhc.mcgill.ca)  
Website: [www.mcgill.ca/radiology/](http://www.mcgill.ca/radiology/)

**Emergency Medicine**

Telephone: 514-934-1934, ext. 36974  
Email: [elisa.monaco@mcgill.ca](mailto:elisa.monaco@mcgill.ca)  
Website: [www.mcgill.ca/emergency](http://www.mcgill.ca/emergency)

**Epidemiology, Biostatistics, and Occupational Health**

Telephone: 514-398-6258

**Epidemiology, Biostatistics, and Occupational Health**

Website: [www.mcgill.ca/epi-biostat-occh/](http://www.mcgill.ca/epi-biostat-occh/)

**Family Medicine**

Telephone: 514-399-9120 or 514-398-7375

Email: [undergrad.fammed@mcgill.ca](mailto:undergrad.fammed@mcgill.ca)

Website: [www.mcgill.ca/familymed](http://www.mcgill.ca/familymed)

**Geriatric Medicine**

Telephone: 514-934-1934, ext. 45831

Website: [www.mcgill.ca/geriatrics](http://www.mcgill.ca/geriatrics)

**Human Genetics**

Telephone: 514-398-6890

Email: [grad.hg@mcgill.ca](mailto:grad.hg@mcgill.ca)

Website: [www.mcgill.ca/humangenetics](http://www.mcgill.ca/humangenetics)

**Medical Physics**

Telephone: 514-934-1934, ext. 44158

Email: [margery.knewstubb@mcgill.ca](mailto:margery.knewstubb@mcgill.ca)

Website: [www.mcgill.ca/medphys](http://www.mcgill.ca/medphys)

**Medicine**

Telephone: 514-843-1578

Email: [diane.lewis@mcgill.ca](mailto:diane.lewis@mcgill.ca)

Website: [www.mcgill.ca/deptmedicine](http://www.mcgill.ca/deptmedicine)

**Microbiology and Immunology**

Telephone: 514-398-7492

Email: [office.microimm@mcgill.ca](mailto:office.microimm@mcgill.ca)

Website: [www.mcgill.ca/microimm](http://www.mcgill.ca/microimm)

**Neurology and Neurosurgery**

Website: [www.neurology.mcgill.ca](http://www.neurology.mcgill.ca)

**Obstetrics and Gynecology**

Telephone: 514-934-1934, ext. 35781

Website: [www.mcgill.ca/obgyn/contact-us](http://www.mcgill.ca/obgyn/contact-us)

**Oncology**

Telephone: 514-398-2264

Email: [oncologysec.med@mcgill.ca](mailto:oncologysec.med@mcgill.ca)

Website: [www.medicine.mcgill.ca/oncology](http://www.medicine.mcgill.ca/oncology)

**Ophthalmology**

Telephone: 514-843-1544  
Email: [eye.med@mcgill.ca](mailto:eye.med@mcgill.ca)  
Website: [www.mcgill.ca/ophthalmology](http://www.mcgill.ca/ophthalmology)

**Otolaryngology - Head and Neck Surgery**

Telephone: 514-934-1934, ext. 32820  
Email: [otl-residency.med@mcgill.ca](mailto:otl-residency.med@mcgill.ca)  
Website: [www.mcgill.ca/ent](http://www.mcgill.ca/ent)

**Pathology**

Telephone: 514-934-1934, ext. 38788  
Website: [www.mcgill.ca/pathology](http://www.mcgill.ca/pathology)

**Pediatrics**

Telephone: 514-412-4467, ext. 24467  
Email: [aec7\\_9-studentaffairs.med@mcgill.ca](mailto:aec7_9-studentaffairs.med@mcgill.ca)  
Website: [www.mcgill.ca/peds](http://www.mcgill.ca/peds)

**Pharmacology and Therapeutics**

Telephone: 514-398-3622  
Email: [undergradstudies.pharmacology@mcgill.ca](mailto:undergradstudies.pharmacology@mcgill.ca)  
Website: [www.mcgill.ca/pharma](http://www.mcgill.ca/pharma)

**Physiology**

Telephone: 514-398-3689  
Email: [sonia.viselli@mcgill.ca](mailto:sonia.viselli@mcgill.ca)  
Website: [www.mcgill.ca/physiology](http://www.mcgill.ca/physiology)

**Psychiatry**

Telephone: 514-398-4176  
Email: [graduate.psychiatry@mcgill.ca](mailto:graduate.psychiatry@mcgill.ca)  
Website: [www.mcgill.ca/psychiatry](http://www.mcgill.ca/psychiatry)

**Rosalind and Morris Goodman Cancer Research Centre**

Telephone: 514-398-1836 or 514-398-3527  
Email: [leah.donnelly@mcgill.ca](mailto:leah.donnelly@mcgill.ca) or [petra.gaiser@mcgill.ca](mailto:petra.gaiser@mcgill.ca)  
Website: [www.mcgillgcrc.com](http://www.mcgillgcrc.com)

**Social Studies of Medicine**

Telephone: 514-398-6668  
Email: [heike.ferber@mcgill.ca](mailto:heike.ferber@mcgill.ca)  
Website: [www.mcgill.ca/ssom](http://www.mcgill.ca/ssom)

## Surgery

Telephone: 514-934-1934, ext. 43047

Email: [ugradsurgery.med@mcgill.ca](mailto:ugradsurgery.med@mcgill.ca)

Website: [www.medicine.mcgill.ca/surgery](http://www.medicine.mcgill.ca/surgery)

**Faculty of Science: Contact Inf**

#### **Cognitive Science (program)**

Email: [ryan.bouma@mcgill.ca](mailto:ryan.bouma@mcgill.ca)

Website: [www.mcgill.ca/cogsci](http://www.mcgill.ca/cogsci)

#### **Computer Science (School of)**

Telephone: 514-398-7071, ext. 00739

Email: [undergraduate.secretary@cs.mcgill.ca](mailto:undergraduate.secretary@cs.mcgill.ca)

Website: [www.cs.mcgill.ca](http://www.cs.mcgill.ca)

#### **Earth and Planetary Sciences (Department of)**

Telephone: 514-398-6767

Email: [kristy.thornton@mcgill.ca](mailto:kristy.thornton@mcgill.ca) or [anne.kosowski@mcgill.ca](mailto:anne.kosowski@mcgill.ca)

Website: [www.mcgill.ca/eps](http://www.mcgill.ca/eps)

#### **Earth Systems Science Interdepartmental (program)**

Telephone: 514-398-2596

Email: [william.minarik@mcgill.ca](mailto:william.minarik@mcgill.ca)

Website: [www.ess.mcgill.ca](http://www.ess.mcgill.ca)

#### **Environment (School of)**

Telephone: 514-398-4306

Email: [kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)

Website: [www.mcgill.ca/mse](http://www.mcgill.ca/mse)

#### **Geography (Department of)**

Telephone: 514-398-4951 or 514-398-4111

Email: [undergrad.geog@mcgill.ca](mailto:undergrad.geog@mcgill.ca) or [advisor.geog@mcgill.ca](mailto:advisor.geog@mcgill.ca)

under

### Management (BCom program)

Telephone: 514-398-4068  
Email: [bcom.mgmt@mcgill.ca](mailto:bcom.mgmt@mcgill.ca)  
Website: [www.mcgill.ca/desautels/programs/bcom](http://www.mcgill.ca/desautels/programs/bcom)

### Mathematics & Statistics (Department of)

Telephone: 514-398-3800  
Email: [ugrad.mathstat@mcgill.ca](mailto:ugrad.mathstat@mcgill.ca) or [angela.white@mcgill.ca](mailto:angela.white@mcgill.ca)  
Website: [www.mcgill.ca/mathstat](http://www.mcgill.ca/mathstat)

### Microbiology & Immunology (Department of)

Telephone: 514-398-7492  
Email: [office.microimm@mcgill.ca](mailto:office.microimm@mcgill.ca)  
Website: [www.mcgill.ca/microimm](http://www.mcgill.ca/microimm)

### Music (program)

Telephone: 514-398-4535, ext. 6337  
Email: [dino.dutz@mcgill.ca](mailto:dino.dutz@mcgill.ca)  
Website: [www.mcgill.ca/music/student-resources/undergraduates](http://www.mcgill.ca/music/student-resources/undergraduates)

### Neuroscience (program)

Telephone: 514-398-7330  
Email: [ryan.bouma@mcgill.ca](mailto:ryan.bouma@mcgill.ca)  
Website: [www.mcgill.ca/neuroscience](http://www.mcgill.ca/neuroscience)

### Pathology (Department of)

Telephone: 514-934-1934, ext. 32929  
Email: [pathologyteaching.med@mcgill.ca](mailto:pathologyteaching.med@mcgill.ca)  
Website: [www.mcgill.ca/pathology](http://www.mcgill.ca/pathology)

### Pharmacology (program)

Telephone: 514-398-3622  
Email: [undergradstudies.pharmacology@mcgill.ca](mailto:undergradstudies.pharmacology@mcgill.ca)  
Website: [www.mcgill.ca/pharma](http://www.mcgill.ca/pharma)

### Physics (Department of)

Telephone: 514-398-7226  
Email: [ugradcoordinator.physics@mcgill.ca](mailto:ugradcoordinator.physics@mcgill.ca)  
Website: [www.physics.mcgill.ca](http://www.physics.mcgill.ca)

### Physiology (Department of)

Telephone: 514-398-4316  
Email: [sonia.viselli@mcgill.ca](mailto:sonia.viselli@mcgill.ca)  
Website: [www.mcgill.ca/physiology](http://www.mcgill.ca/physiology)

**Psychology (Department of)**

Telephone: 514-398-6100  
 Email: [info@psych.mcgill.ca](mailto:info@psych.mcgill.ca)  
 Website: [www.mcgill.ca/psychology](http://www.mcgill.ca/psychology)

**Redpath Museum**

Telephone: 514-398-4086, ext. 3188  
 Email: [redpath.museum@mcgill.ca](mailto:redpath.museum@mcgill.ca)  
 Website: [www.mcgill.ca/redpath](http://www.mcgill.ca/redpath)

**Science for Teachers**

Telephone: 514-398-7106  
 Email: [pete.barry@mcgill.ca](mailto:pete.barry@mcgill.ca)  
 Website: [www.mcgill.ca/scienceforteachers](http://www.mcgill.ca/scienceforteachers)

**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](mailto:welcome@mcgill.ca)). Tours of the downtown campus can be booked through [www.mcgill.ca/undergraduate-admissions/visits/campus-tours](http://www.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](mailto:studentinfo.macdonald@mcgill.ca)). Tours can be booked directly at [mcgillmind.mcgill.ca/mcgill/campustours](http://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 legal documents
- tuition and fees information
- pick-up of alternative U.S. Loans

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

- course and program registration

- exams (including deferred and supplemental)

For a complete list of student services and resources at McGill, see [www.mcgill.ca/students](http://www.mcgill.ca/students).

For more information about Service Point, see [www.mcgill.ca/servicepoint](http://www.mcgill.ca/servicepoint).

### 1.12.1 Location

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

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## 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: [www.mcgill.ca/studentsservices](http://www.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](mailto:deanofstudents@mcgill.ca)  
 Website: [www.mcgill.ca/deanofstudents](http://www.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  
 General Information: 514-398-8238  
 Website: [www.mcgill.ca/studentsservices](http://www.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 \(MORSL\)](#)
- [section 1.13.3.6: Office for Sexual Violence Response, Support, and Education](#)
- [section 1.13.3.7: Office for Students with Disabilities \(OSD\)](#)
- [section 1.13.3.8: Office of Sustainability](#)
- [section 1.13.3.9: Scholarships and Student Aid Office](#)
- [section 1.13.3.10: Student Wellness Hub](#)
- [section 1.13.3.11: Tutorial Service](#)

#### **1.13.3.1 Campus Life & Engagement (CL&E)**

Supports all students, new and returning, and connects them to resources and opportunities that will enhance their student experience.

1010 Sherbrooke Street, Suite 203  
 Telephone: 514-398-6913  
 Email: [cle@mcgill.ca](mailto:cle@mcgill.ca)  
 Website: [www.mcgill.ca/cle](http://www.mcgill.ca/cle)

##### **First-year students:**

Email: [firstyear@mcgill.ca](mailto:firstyear@mcgill.ca)  
 Website: [www.mcgill.ca/firstyear](http://www.mcgill.ca/firstyear)

#### **1.13.3.2 Career Planning Service (CaPS)**

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

Brown Student Services Building, East Wing, Suite 2200  
 Telephone: 514-398-3304  
 Email: [careers.caps@mcgill.ca](mailto:careers.caps@mcgill.ca)  
 Website: [www.mcgill.ca/caps](http://www.mcgill.ca/caps)  
 myFuture: [caps.myfuture.mcgill.ca](http://caps.myfuture.mcgill.ca)

#### **1.13.3.3 First Peoples' House**

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

3505 Peel Street  
 Telephone: 514-398-3217  
 Email: [firstpeopleshouse@mcgill.ca](mailto:firstpeopleshouse@mcgill.ca)  
 Website: [www.mcgill.ca/fph](http://www.mcgill.ca/fph)

#### **1.13.3.4 International Student Services (ISS)**

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

Brown Student Services Building, East Wing, Suite 5100  
 Telephone: 514-398-4349  
 Email: [international.students@mcgill.ca](mailto:international.students@mcgill.ca)  
 Website: [www.mcgill.ca/internationalstudents](http://www.mcgill.ca/internationalstudents)

#### **1.13.3.5 Office of Religious and Spiritual Life (MORSL)**

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

Presbyterian College, 3495 University Street, 2<sup>nd</sup> floor  
 Telephone: 514-398-4104

Email: [morsl@mcgill.ca](mailto:morsl@mcgill.ca)

Website: [www.mcgill.ca/morsl](http://www.mcgill.ca/morsl)

#### **1.13.3.6 Office for Sexual Violence Response, Support, and Education**

Confidential, non-judgmental, and non-directional support for students, f

Brown Student Services Building, 3rd floor  
Telephone: 514-398-6017  
Email: [hub.clinic@mcgill.ca](mailto:hub.clinic@mcgill.ca)  
Website: [mcgill.ca/wellness-hub](http://mcgill.ca/wellness-hub)

Macdonald Campus  
Centennial Centre, Room 124  
Telephone: 514-398-7992  
Website: [mcgill.ca/macdonald-studentservices/health-wellness/clinic](http://mcgill.ca/macdonald-studentservices/health-wellness/clinic)

#### **1.13.3.11 Tutorial Service**

Sponsors an extensive peer matching tutoring program for students.

Brown Student Services Building, AskMcGill Kiosk (East Wing Entrance)  
Telephone: 514-398-8238  
Email: [tutoring.service@mcgill.ca](mailto:tutoring.service@mcgill.ca)  
Website: [www.mcgill.ca/tutoring](http://www.mcgill.ca/tutoring)

#### **1.13.4 Student Services – Macdonald Campus**

Students who study on the Macdonald campus may make full use of all Student Services on both campuses. All **Student Services** at Macdonald Campus

#### **1.13.4.3 Office for Students with Disabilities (OSD)**

Offers support to students experiencing barriers to their academic success related to a disability, mental health condition, chronic illness, or other impairment. An Access Services Advisor is present at Mac campus at least once per month during the academic year to discuss students' barriers and determine if academic accommodations can be put in place. Appointments can also be made via Skype through the downtown office.

Macdonald Campus

Telephone: 514-398-7992 (Mac)

Website: [www.mcgill.ca/osd](http://www.mcgill.ca/osd)

Main Office - Downtown

1010 Sherbrooke St. W. Suite 1101

Telephone: 514-398-6009

Email: [disabilities.students@mcgill.ca](mailto:disabilities.students@mcgill.ca)

#### **1.13.4.4 Office of Religious and Spiritual Life (MORSL)**

Through a volunteer MacDonald campus liaison, MORSL connects students who identify as religious with their on-campus communities and faith liaisons. Provides students with resources to explore spirituality and non-denominational de-stress activities.

Contact via email: [cowanvl@gmail.com](mailto:cowanvl@gmail.com)

#### **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: [www.mcgill.ca/wellness-hub/access-care/macdonald-campus-careook](http://www.mcgill.ca/wellness-hub/access-care/macdonald-campus-careook)

The mandate of the Ombudsperson for Students at McGill University is to intervene at any point and attempt to resolve issues informally before proceeding to more formal processes. To consult the mandate, visit the website of the Office of the Ombudsperson for Students.

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

- international clubs;
- leadership groups;
- peer support programs;
- student government societies;
- religious groups;
- political clubs;
- communications and media groups such as the CKUT radio station, the McGill Tribune, and the McGill Daily;
- science clubs;
- literary, theatrical, and musical societies;
- athletic, recreational, and outdoor activity/sports groups;
- ...and many more.

An overview of extra-curricular activities at McGill is available on Campus Life & Engagement's [Engage McGill](#) site. [myInvolvement](#) is an online tool 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 club rooms 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](#).

### 1.13.7 Bookstore

#### 1.13.7.1 Downtown Campus

The *Le James* – McGill Bookstore sells new and used textbooks, a full range of books for the academic and professional community, stationery supplies, technology, and McGill clothing and gift items. Visit the *Le James* website to sign up for email reminders so you are the first to know about services such as used textbook buyback and other events.

The *Le James* – McGill Bookstore is open year round. Please visit the [Le James](#) website for details and directions.

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

**Mobile Store (Seasonal)**  
McGill Lower Campus  
Webstore: [lejames.ca](http://lejames.ca)

#### 1.13.7.2 Macdonald Campus

Located 41.981 u1 Tf aTMuite for details and directions0o0nal community1.13.7.2

Macdonald Campus Centennial Centre  
Telephone: 514-398-8300  
Website: [mcss.mcgill.ca/bookstore](http://mcss.mcgill.ca/bookstore)

### 1.13.8 Computer Store

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

### 1.13.9 Day Care

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

The Centre is located at:

3491 Peel Street  
Montreal QC H3A 1W7  
Telephone: 514-398-6943  
Website: [www.mcgill.ca/daycare](http://www.mcgill.ca/daycare)

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

The Centre is located at:

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

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## 1.14 Residential Facilities

McGill residences offer you a variety of accommodations that reflect the diversity of our student population on both the Downtown and Macdonald campuses.

### Mission statement

To continuously develop a safe home and nurturing community for our students through the following means:

- Keeping the value of respect for ourselves, others, and the ph

#### 1.14.1.1 Traditional and Hotel-style Residences

McGill has nine dormitory residences:

- 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 hav

**Shared-facilities** houses are also leased on an 11-month basis: last weekend of August to July 31. Room rates range from \$9,207 for a double room and for a single room they range from \$11,044 to \$12,903. Residents of shared-facilities houses also have an already-activated *oneCard* account on their McGill ID card, allowing them to purchase food and do laundry in residence.

These rates are also available at [www.mcgill.ca/students/housing/fees-applying/undergrad-downtown-fees](http://www.mcgill.ca/students/housing/fees-applying/undergrad-downtown-fees).

#### 1.14.1.5 Meal Plans

Residents assigned to Carrefour Sherbrooke, La Citadelle, Douglas Hall, Gardner Hall, Molson Hall, McConnell Hall, New Residence Hall, Royal Victoria College, and University Hall have compulsory meal plans that can be used seven days a week. All residents on the Mandatory Meal Plan are welcome to dine in any of the four dining halls as well as 20+ on-campus dining locations.

While all of the hotel- or traditional-style residences offer small kitchens or kitchenettes for the convenience of students, La Citadelle has a fully-equipped communal kitchen, where residents can prepare snacks or meals at any time.

The apartments and houses have fully-equipped kitchens where students can prepare their own meals.

For more information, see [www.mcgill.ca/foodservices/mealplans](http://www.mcgill.ca/foodservices/mealplans).

#### 1.14.1.6 oneCard

*oneCard* is a taxable account that is already added to all undergraduate resident students' McGill ID cards, allowing them to make purchases and easily access multiple services on campus without the hassle of carrying cash and debit cards. Downtown residence students will have \$500 on their oneCard account and MAC residence students will have \$150, due at the end of September.

#### 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-Belle



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

An updated fee sheet will be available on the Macdonald residence website at [www.mcgill.ca/students/housing/fees-applying/mac-fees](http://www.mcgill.ca/students/housing/fees-applying/mac-fees).

There is no meal plan offered on the Macdonald Campus. Students may, however, load their *One Card* to purchase meals; refer to [www.mcgill.ca/onecard](http://www.mcgill.ca/onecard) for more information. Meals are also available on a cash basis from *the Café Twigs*, located on the ground floor between the Macdonald-Stewart Building and Barton Library. For b



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## 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 6 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 [www.mcgill.ca/library/branches](http://www.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 ([www.mcgill.ca/library](http://www.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 spaces, such as individual quiet study areas and group study rooms that can be *booked* for use. Wireless access is available throughout the library, as are hundreds of computers, and all libraries have printing, scanning, and copying machines. Facilities are available for vision and hearing impaired users.

Special library services like the Course Reserve collection located in each branch library allow you to borrow high-demand items on course reading lists. You can also borrow materials from any library and return them anywhere across the system. If you need material not owned by the McGill University Library, our *Interlibrary Loan and Document Delivery Service* will obtain it for you at no cost for McGill students, faculty, and staff. Interlibrary loans can be picked up at any branch.

### 1.17.2 McGill Writing Centre

The McGill Writing Centre (MWC) offers credit courses in academic writing that may be taken as electives or to fulfil language requirements in some degree programs. In some faculties, you need to obtain approval from your Student Affairs Office as well as from your academic adviser before you take courses outside of your faculty, especially if the courses do not form part of your program requirements. In addition to its credit course offerings, the MWC offers non-credit courses, workshops, and individualized tutoring. For further information, please visit the MWC website: [www.mcgill.ca/mwc](http://www.mcgill.ca/mwc)

Course Number	Course Title	Credits
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
CESL 631	Strategies for Academic Communication in English	1
CESL 641	Fundamentals of Academic Writing in English	1
CESL 651	Pronunciation for Effective Communication	1

**Course for School of Continuing Studies Students:**

Course Number	Course Title	Notes
CCOM 205	Communication in Management 1	Restricted to and required for students in Career and Professional Development programs offered by the School of Continuing Studies. MWC Departmental approval required.

**Course in Professional Writing (CE Units):**

Course Number	Course Title	Notes
CCOM 208	Professional Writing in Business	

**1.17.2.1 McGill Writing Centre Contact Information**

McGill Writing Centre  
 McLennan-Redpath Library  
 Main Floor, Room #02  
 3459 McTavish Street  
 Montreal QC H3A 0C9  
 Telephone: 514-398-7109  
 Fax: 514-398-7416  
 Website: [www.mcgill.ca/mwc](http://www.mcgill.ca/mwc)  
 General Inquiries: [mwc@mcgill.ca](mailto:mwc@mcgill.ca)

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

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

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

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

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

Prof. Diane Dechief  
 Email: [diane.dechief@mcgill.ca](mailto:diane.dechief@mcgill.ca)  
 McLennan-Redpath Library  
 Main Floor, Room #02  
 Telephone: 514-398-3320

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

Dr. Yvonne Hung

Email: [yvonne.hung@fmail.ca](mailto:yvonne.hung@fmail.ca)  
McLennan-Redpath Library  
Main Floor, Room #02  
Telephone: 514-398-8430

Administrative inquiries should be directed to:

[mwc@fmail.ca](mailto:mwc@fmail.ca) for undergraduate courses  
[graphos@fmail.ca](mailto:graphos@fmail.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@fmail.ca](mailto:refdesk.archives@fmail.ca)  
Website: [www.fmail.ca/library/branches/mua](http://www.fmail.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 staff to visit its permanent exhibit, which presents the history of life through the ages illustrated by material from Quebec and neighbouring regions, as well as displays that feature the mineral and mollusc collections. The Museum also features a world cultures gallery devoted to cultures throughout the world, including ancient Egypt, classical Greece and Rome, Asia, and Africa.

859 Sherbrooke Street West  
Telephone: 514-398-4086  
Email: [redpath.museum@fmail.ca](mailto:redpath.museum@fmail.ca)  
Website: [www.fmail.ca/redpath](http://www.fmail.ca/redpath)

### 1.17.5 McCord Museum of Canadian History

The McCord Museum houses one of the finest historical collections in North America. It possesses some of Canada's most significant cultural treasures, including the most comprehensive collection of clothing—comprising over 18,845 garments or accessories—made or worn in Canada; an extensive collection of First Nations artifacts—the most important of its kind in Quebec with a corpus of over 15,800 objects from across Canada; and the renowned Notman



capital expenditures did not become available until the early 1950s. Since that time government grants have become a major factor in the University's financial operations, but it still relies on private support and private donors in its pursuit of excellence in teaching and research.

The University now comprises 10 faculties and 13 schools. At present over 38,000 students are taking credit courses; one in four is registered in Graduate Studies.

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

## **1.18.2 Incorporated and Affiliated Colleges**

### **Incorporated College**

#### 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 organizations worldwide for decades.

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

#### 1.18.5 Governance: Board of Governors

##### 1.18.5.1 The Visitor

###### The Visitor

Her Excellency The Right Honourable Julie Payette

**The Governor General of Canada**

##### 1.18.5.2 Board of Governors

###### Board of Governors

Ram Panda; M.Eng., M.B.A.(McG.)

**Chair**

Suzanne Fortier; B.Sc., Ph.D.(McG.)

**Principal and Vice-Chancellor**

Michael

**Chancellor**



### 1.18.5.2.2 Student Representatives

#### Student Representatives

Students' Society of McGill (1)

Post-Graduate Students' Society of McGill (1)

#### *Observers*

McGill Association of Continuing Education Students (1)

Macdonald Campus Students' Society (1)

## 1.18.6 Governance: Members of Senate

### 1.18.6.1 Ex-officio

#### *Ex-officio*

The Chancellor

The Chair of the Board of Governors

The Principal and Vice-Chancellor

The Provost, Deputy Provost, and the vice-principals

The deans of faculties

The Dean of Continuing Studies

The Dean of Graduate and Postdoctoral Studies

The Dean of Students

The Dean/Director of Libraries

The University Registrar and Executive Director of Enrolment Services

The Director of Teaching and Learning Services

### 1.18.6.2 Elected Members

#### Elected Members

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

Student Members (21)

## 1.18.7 Administration

#### Administration

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

**Chancellor**

Suzanne F

**Principal and Vice-Chancellor**

**Administration**

Edyta Rogowska; B.A.(Tor.), M.A.(McG.)  
 Yves Beauchamp; B.Eng., M.Eng.(UQTR), Ph.D.(WVU)  
 Diana Dutton; B.F.A.(C'dia), Gr. Dip., M.B.A.(McG.)  
 Robert Couvrette; B.Sc.(École Poly., Montr. & HEC), M.P.M.(UQAM)  
 Louis Arsenault; B.A.(UQAM), M.A.(Paris VII)  
 David Eidelman; M.D.,C.M.(McG.), FRCPC, FACP  
 Sam Benaroya; B.Sc., M.D.,C.M.(McG.)  
 Martha Crago; B.A.(McG.)  
 Sylvain Coulombe; B.Sc., M.Sc.A.(Sherbrooke), Ph.D.(McG.)  
  
 Anne McKinney; B.Sc., Ph.D.(Ulster)  
 Nancy Ross; Ph.D.(McM.)  
 Marc Weinstein; B.A., B.C.L., LL.B.(McG.)

**Secretary-General**  
**Vice-Principal (Administration & Finance)**  
**Associate Vice-Principal (Human Resources)**  
**Associate Vice-Principal (Facilities Management and Ancillary Services)**  
**Vice-Principal (Communications & External Relations)**  
**Vice-Principal (Health Affairs) and Dean (Faculty of Medicine)**  
**Associate Vice-Principal (Health Affairs) and Vice-Dean (Health Affairs)**  
**Vice-Principal (Research & Innovation)**  
**Associate Vice-Principal (Research & Innovation) (Innovation & Partnerships)**  
**Associate Vice-Principal (Research & Innovation) (Health Sciences)**  
**Associate Vice-Principal (Research & Innovation) (Social Sciences)**  
**Vice-Principal (University Advancement)**

**1.18.7.1 Deans, Directors of Schools and Libraries**

**1.18.7.1.1 Deans**

**Deans**

Anja Geitmann; Diplom(Konstanz), Ph.D.(Siena)  
 Antonia Maioni; B.A.(Laval), M.A.(Car.), Ph.D.(N'western)  
 Carola Weil; B.A.(Bryn Mawr), M.A., M.P.M., Ph.D.(Md.)  
 Elham Emami; D.D.S.(Tehran), M.Sc., Ph.D.(Montr.)  
 Dilson Rassier; B.Sc.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)  
 James Nicell; B.A.Sc., M.A.Sc., Ph.D.(Windsor), P.Eng.  
 Josephine Nalbantoglu; B.Sc., Ph.D.(McG.)  
 Robert Leckey; B.A.(Hons.)(Qu.), B.C.L./LL.B.(McG.), S.J.D.(Tor.)  
 Colleen Cook; B.A., M.L.S., M.A., Ph.D.(Texas)  
 Isabelle Bajoux-Besnainou; Degree(ENS Paris), M.Sc.(Paris VI & Paris IX),  
 Doctorate(Paris IX)  
 David Eidelman; M.D.,C.M.(McG.), FRCPC, FACP  
 Brenda Ravenscroft; B.Mus.(Cape Town), M.Mus.(King's, Lond.), Ph.D.(Br.  
 Col.)  
 R. Bruce Lennox; B.Sc., M.Sc., Ph.D.(Tor.)  
 Chris Buddle; B.Sc.(Guelph), Ph.D.(Alta.)

**Agricultural & Environmental Sciences**  
**Arts**  
**Continuing Studies**  
**Dentistry**  
**Education**  
**Engineering**  
**Graduate & Postdoctoral Studies**  
**Law**  
**Libraries**  
**Management**  
**Medicine**  
**Music**  
**Science**  
**Dean of Students**

**1.18.7.1.2 Directors of Schools**

**Directors of Schools**

Martin Bressani; B.Arch.(McG.), M.Sc.(MIT), Ph.D.(Paris 1)  
 Marc Pell; B.A.(Ott.), M.Sc., Ph.D.(McG.)  
 Bettina Kemme; M.C.S.(Friedrich-Alexander Univ.), Ph.D.(ETH Zürich)  
 Linda Wykes; B.Sc., M.Sc., Ph.D.(Tor.)  
 Sylvie de Blois; B.Sc.(McG.), M.Sc., Ph.D.(Montr.)  
 Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)

**Architecture**  
**Communication Sciences & Disorders**  
**Computer Science**  
**Human Nutrition**  
**Environment**  
**Information Studies**

## Directors of Schools

Anita Gagnon; B.Sc.(Cath. Univ. of Amer.), M.P.H.(Johns Hop.),  
Ph.D.(McG.)

**Nursing**

Annette Majnemer; B.Sc., M.Sc., Ph.D.(McG.)

**Physical & Occupational Therapy**

Daniel Cere; B.A, M.A.(McG.), Ph.D.(C' dia) (*Interim*)

**Religious Studies**

Nico Trocmé; B.A., M.A., Ph.D.(Tor.)

**Social Work**

Richard Shearmur; B.A.(Camb.), M.U.P.(McG.), Ph.D.(Montr.) (*Interim*)

**Urban Planning**

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

**Public Policy**

### 1.18.8 Student Governance

All students registered in an undergraduate program on the Downtown (McGill) campus are registered members of the accredited Students' Society of McGill University, more commonly known as SSMU. The SSMU is your representative on key issues inside and outside of the campus and will advocate for student priorities to both the McGill administration and government bodies. There are six elected executives of SSMU who represent all 22,000-plus undergrads on the Downtown campus. There is a *Legislative Council* that meets with representatives from faculty associations and other student groups around campus on a bi-weekly basis. This council of thirty-seven members meets to discuss student issues and how services are being provided to students.

SSMU operates over 250 clubs and runs 19 student services; for more information, see [ssmu.ca/student-life/clubs-services-ig](http://ssmu.ca/student-life/clubs-services-ig). SSMU provides a great deal of extra-curricular opportunities for students to balance a life of study with a life of involvement, and an opportunity to meet other students. The organization also provides event programming like freshman orientation (Orientation Week/Frosh), Activities Night, Faculty Olympics, community engagement opportunities, workshops, and concerts. Each faculty and each department also has organizations dedicated to providing extra-curricular involvement for their students.

Situated on the Downtown campus, SSMU operates a five-floor building including a student lounge, cafeteria, *campus bar*, and many multipurpose spaces namely for use by student groups, but also for McGill community members.

SSMU offices are located at 3600 McTavish Street, Suite 1200 and operate between the hours of 9:00 a.m. and 5:00 p.m. during the year.

For more information regarding student government at McGill you can *contact the SSMU* or visit their website at [ssmu.ca](http://ssmu.ca).

Email: [frontctr@ssmu.ca](mailto:frontctr@ssmu.ca)

President: [president@ssmu.ca](mailto:president@ssmu.ca)

Welcome to McGill and we look forward to representing your interests.

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## 2 Faculty of Agricultural and Environmental Sciences

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### 2.1 About the Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition

**Mission Statement:** The Faculty of Agricultural and Environmental Sciences is committed to excellence in teaching, research, and service to ensure that humanity's present and future food, health, and natural resource needs are met while protecting the environment.

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#### History of the F







if all immunization requirements are complete. Updates to your immunizations may be required during your program. For full details, see [www.mcgill.ca/wellness-hub/access-care/vaccines](http://www.mcgill.ca/wellness-hub/access-care/vaccines).

#### 2.4.5.8 Language Requirement for Professions

Quebec law requires that candidates seeking admission to provincially recognized Quebec professional corporations or *Ordres* have a working knowledge of the French language, i.e., be able to communicate verbally and in writing in that language. Agrologists, chemists, dietitians, and engineers are among those within this group.

For additional information, see [University Regulations and Resources](#) > Undergraduate > Admission to Professional and Graduate Studies > [section 1.10.1: Language Requirements for Professions](#).

### 2.4.6 Faculty Information and Regulations

**Each student in the Faculty of Agricultural and Environmental Sciences must be aware of the Faculty Regulations as stated in this publication.**

While departmental and faculty advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness 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, and 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 Faculty.

A faculty adviser is also available in the Student Affairs Office to assist you with student record related matters.

#### 2.4.6.4 Categories of Students

##### 2.4.6.4.1 Full-time Students

Full-time students in Satisfactory Standing take a minimum of 12 credits per term. A normal course load is considered to be 15 credits per term. Students who wish to be considered for Faculty in-course scholarships must be registered for 27 graded credits during the fall/winter academic year.

Students in Probationary Standing are not permitted to take more than 14 credits per term. In exceptional circumstances, the Committee on Academic Standing may give permission to attempt more.

##### 2.4.6.4.2 Part-time Students

Part-time students carry fewer than 12 credits per term.

#### 2.4.6.5 Academic Standing

You must prove that you can master the material of lectures and laboratories. Examinations are normally held at the end of each course, but other methods of evaluation may also be used. The grade assigned for a course represents your Standing in all the coursework.





#### **2.4.6.8.1 Procedures for Minor Programs**

If you want to register for a Minor program, you must complete a Minor Approval form (usually at the beginning of your U2 year), and return it duly completed to the Student Affairs Office. The Minor program will then be added to your record and will automatically continue each year unless you officially cancel it in writing. If you want to cancel the Minor, you must notify both the Minor Adviser and the Student Affairs Office. The Minor Approval form is available on the Faculty website and in the Student Affairs Office, Laird Hall, Room 106.

#### **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.

#### **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 required, it must be reported to the Associate Dean (Student Affairs).

Punctual attendance at all classes, laboratory periods, tests, etc., is expected of all students.

#### **2.4.6.12 Incomplete Grades**

Please refer to [University Regulations and Resources > Undergraduate > Student Records > section 1.5.5: Incomplete Courses](#).

#### **2.4.6.13 Examinations**

You should refer to [University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information](#) for information about final examinations and deferred examinations. Examination schedules are posted on the McGill [website](#); normally 4 weeks after the start of classes for the **Tentative** Exam Schedule, and 6 weeks after the start of classes for the **Final** Exam Schedule.

Every student has a right to write essays, examinations, and theses in English or in French except in courses where knowledge of a language is one of the objectives of the course.

Oral presentations made as part of course requirements are in English.

##### **2.4.6.13.1 Reassessments and Rereads**

Please refer to [University Regulations and Resources > Undergraduate > Examinations: General Information > Final Examinations > section 1.6.4.3.2: Reassessments and Rereads: Faculty of Agricultural and Environmental Sciences](#).

##### **2.4.6.13.2 Deferred Examinations**

Please refer to [University Regulations and Resources > Undergraduate > Examinations: General Information > Final Examinations > section 1.6.4.2: Final Examinations: Deferred Examinations](#).

#### **2.4.6.14 Degree Requirements**

To be eligible for a B.Eng.(Bioresource), B.Sc.(Ag.Env.Sc.), B.Sc.(F.Sc.), or Concurrent B.Sc.(F.Sc.) and B.Sc.(Nutr.Sc.) degree, you must have passed, or achieved exemption, with a minimum grade of C in all required and complementary courses of the program. You must also have a CGPA of at least 2.00.

In addition, if you are a student in the Dietetics program, you must hav

#### **2.4.6.16 Scholarships, Bursaries, Prizes, and Medals**

Various scholarships, b

### 2.5.1.1 FAES 200 / FAES 300 Internship Program

As a full-time undergraduate student (with a CGPA of 2.7 or higher) in the Faculty of Agricultural and Environmental Sciences, you have the opportunity to participate in the Internship program.

The internship should be a minimum length of 10 weeks, with the student working 35 hours a week or more. **FAES 200** is a non-credit (pass or fail) course. **FAES 300** is a 3-credit course, and you will receive a final grade on your transcript. The internship should be related to your field of study.

### 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, *except* Agricultural Economics and Environment, and at least one of the specializations. By choosing two different specializations, students have the option of developing their own interdisciplinary interests. The multidisciplinary specialization is designed for those interested in broad training.

All the required and complementary courses for the major must be completed in full. Within each specialization, at least 18 credits must be unique, i.e., they only count for that specialization and do not overlap with either the major or a second specialization. At least 12 credits must be from 400-level courses or higher.

These programs are also available as *honours* programs for students after they have completed their U2 year if they meet the requirements. See individual programs for details.

### 2.5.3.1 Majors and Honours

Graduates of programs marked with an asterisk (\*) are eligible for membership in the *Ordre des agronomes du Québec* and other provincial institutes of agriculture.

- Agricultural Economics \*
- Agro-environmental Sciences \*
- Environmental Biology
- Global Food Security
- Life Sciences (Biological and Agricultural)
- Major in Environment – see [McGill School of Environment > Undergraduate > section 7.7.4: Major in Environment – B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#)

Full program descriptions are listed at [section 2.6.2.1: B.Sc.\(Ag.Env.Sc.\) Major and Honours Programs](#).



**Note:** In the program description for each major is a suggested list of specializations that complement that major.

### 2.5.3.2 Specializations

Each specialization consists of 24 credits of courses (required and complementary) that provide a coherent package designed to prepare students for a future in a given discipline. Students will select at least one specialization. However, students wishing to broaden their training have the option of choosing to do

two. Although the list of suggested specializations appears under each major in the programs section, students interested in other specializations should consult with their academic adviser.

The following are specializations for the major programs listed above in Agricultural Economics, Agro-Environmental Sciences, Environmental Biology, Global Food Security, and Life Sciences (Biological and Agricultural).

Full program descriptions are also listed at [section 2.6.2.2: Specializations](#).

- Agribusiness, [section 2.6.2.2.1: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Agribusiness \(24 credits\)](#)
- Animal Biology, [section 2.6.2.2.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Animal Biology \(24 credits\)](#)
- Animal Health and Disease, [section 2.6.2.2.3: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Animal Health and Disease \(24 credits\)](#)
- Animal Production, [section 2.6.2.2.4: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Animal Production \(24 credits\)](#)
- Applied Ecology, [section 2.6.2.2.5: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Applied Ecology \(24 credits\)](#)
- Ecological Agriculture, [section 2.6.2.2.6: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Ecological Agriculture \(24 credits\)](#)
- Environmental Economics, [section 2.6.2.2.7: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Environmental Economics \(24 credits\)](#)
- International Agriculture, [section 2.6.2.2.8: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - International Agriculture \(24 credits\)](#)
- Life Sciences (Multidisciplinary), [section 2.6.2.2.9: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Life Sciences \(Multidisciplinary\) \(24 credits\)](#)
- Microbiology and Molecular Biotechnology, [section 2.6.2.2.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Microbiology and Molecular Biotechnology \(24 credits\)](#)
- Plant Biology, [section 2.6.2.2.11: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Plant Biology \(24 credits\)](#)
- Plant Production, [section 2.6.2.2.12: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Plant Production \(24 credits\)](#)
- Professional Agrology, [section 2.6.2.2.13: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Professional Agrology \(24 credits\)](#)
- Soil and Water Resources, [section 2.6.2.2.15: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Soil and Water Resources \(24 credits\)](#)
- Wildlife Biology, [section 2.6.2.2.16: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Wildlife Biology \(24 credits\)](#)

## 2.5.4 Bachelor of Engineering in Bioresource Engineering – B.Eng.(Bioresource) (Overview)

Bioresource engineering is the unique branch of engineering that includes biological engineering and bioengineering where professional engineering practice intersects with biological sciences. Bioresource engineers design, improve, and manage biology-based systems to operate in efficient and sustainable ways for the well-being of the environment and society.

The Department of Bioresource Engineering collaborates with other departments and the Faculty of Engineering in providing courses of instruction for a curriculum in Bioresource Engineering. Graduates qualify to apply for registration as professional engineers in any province of Canada. The Professional Agrology option qualifies graduates to apply for registration to the *Ordre des agronomes du Québec*.

There are three optional streams offered within the Bioresource Engineering Major. Via the appropriate choice of elective course sets, a particular area of study may be emphasized. More information about these streams and the suggested course sets for each can be found on the Department website at [www.mcgill.ca/bioeng](http://www.mcgill.ca/bioeng).

### Bioresource Engineering

- Bio-Environmental Engineering Stream
- Bio-process Engineering Stream
- Bio-production Engineering Stream
- Professional Agrology Option

Refer to [section 2.6.3: Bachelor of Engineering \(Bioresource\) – B.Eng.\(Bioresource\)](#) for a full list of B.Eng.(Bioresource) programs and streams offered.

Students who specialize in the **Bio-Environmental Engineering** stream will learn to be responsible stewards of the environment and natural resources. This stream includes the study of soil and water quality management and conservation, organic waste treatment, urban and rural ecology, sustainability engineering, biodiversity preservation, climate change adaptation, and many other related topics.

In the **Bio-process Engineering** stream, students apply engineering to transform agricultural commodities and biomass into products such as food, fibre, fuel, and biochemicals. Topics include the engineering of foods and food processes, physical properties of biological materials, post-harvest technology, fermentation and bio-processing, the management of organic wastes, biotechnology, the design of machinery for bioprocessing, etc.

Students who follow the **Bio-production Engineering** stream use science and technology to create systems and machines for the production of crops, livestock, and biomass. Students learn about machine design, robotics, artificial intelligence, geomatics and GIS, remote sensing, buildings and structures, and complex systems.

The **Professional Agrology** option offers a course selection guided to qualify graduates for registration as professional agrologists with the *Ordre des agronomes du Québec*.

All required and complementary courses must be passed with a minimum grade of C. One term is spent taking courses from the Faculty of Engineering on the McGill downtown campus.

Students also have the opportunity to pursue a minor. Several possibilities are: Agricultural Production, Environment, Ecological Agriculture, Biotechnology

- *section 2.6.2.1.8: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Global Food Security (54 credits)*
- *section 2.6.2.1.10: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Life Sciences (Biological and Agricultural) (54 credits)*
- *section 2.6.3.2: Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Honours Bioresource Engineering (113 credits)*
- *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 McGill 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*

## 2.5.13 Environmental Sciences Programs (Overview)

### 2.5.13.1 McGill School of Environment (MSE)

The MSE is a joint initiative of the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, the Faculty of Science, and the Faculty of Law. It offers a B.Sc.(Ag.Env.Sc.) Major in Environment, a B.Sc. Major in Environment, a B.A. & Sc. Interfaculty Program in Environment, a B.A. Faculty Program in Environment, a Minor in Environment and a Diploma in Environment. The MSE programs allow you to choose to study on both the Macdonald and Downtown campuses.

Further information on all programs is given in the [McGill School of Environment](#) section, and on the [MSE website](#).

### 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](mailto: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 [www.mcgill.ca/gps](http://www.mcgill.ca/gps).

## 2.6 Browse Academic Programs

Degree programs at the undergraduate level in the Faculty may lead to a B.Sc. degree in Agricultural and Environmental Sciences (Ag.Env.Sc.), a B.Sc. degree in Food Science (F.Sc.), a B.Sc. degree in Nutritional Sciences (Nutr.Sc.), or a B.Eng. degree in Bioresource Engineering. The Faculty also offers students the possibility of doing concurrent B.Sc. degrees in both Food Science and Nutritional Sciences.

The McGill School of Environment also offers several B.Sc.(Ag.Env.Sc.) programs; for more information, please visit the [McGill School of Environment](#) section.

### 2.6.1 Freshman Major

#### Program Director

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

The Freshman Program is designed to provide a basic science foundation to students entering university for the first time from a high school system (outside of the Quebec CEGEP system). The Freshman year consists of at least 30 credits in Fundamental Math and Science courses as preparation for one of the following degree programs:

- B.Sc. (Agricultural & Environmental Sciences)
- B.Eng. (Bioresource)
- B.Sc. (Nutritional Sciences)

B.Sc. (Food Science)

Concurrent B.Sc. (Food Science) and B.Sc. (Nutritional Sciences)

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 Basic Science courses in biology, chemistry, physics, and mathematics. Similarly, students who have completed courses at other universities or colleges may receive exemptions and/or credits. Students should consult with the Faculty's Student Affairs Office.

#### **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 e





BREE 103	(3)	Linear Algebra
BREE 188	(.5)	Freshman Seminar 2

### 2.6.1.3 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Freshman Program (30 credits)

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 (12.5 credits)

AECH 111	(4)	General Chemistry 2
AEMA 102	(4)	Calculus 2
AEPH 114	(4)	Introductory Physics 2

**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

**2.6.1.5 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

**Program Prerequisites**

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

**Required Courses (33 credits)**

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.

### Program Prerequisites

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

### 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 & 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 406	(3)	Honours Project 2

### Complementary Courses (9 credits)

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

- Accounting
- Statistics
- Written/Oral Communication

### Specialization (21 - 24 credits)

Specializations designed to be taken with the Agricultural Economics Major:

- Agribusiness (24 credits)\*
- Environmental Economics (24 credits)
- Professional Agrology (21 credits)\*

\* Membership to the OAQ requires successful completion of these two 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.

#### **2.6.2.1.3 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 Cûe

For information on academic advising, see: <http://www>

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 OA

3 credits from the following:

PLNT 300	(3)	Cropping Systems
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, 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 project 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 project must be 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 project.

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

### 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.

#### 2.6.2.1.5 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Environmental Biology (42 credits)

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 worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.

Program Director: Professor Joann Whalen

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 information on prerequisites and minimum credit requirements.

**Required Courses (36 credits)**

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

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## Electives

To meet the minimum credit requirement for the degree.

### 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 worked into the course sets, and through this experiential learning, biological diversity, and the ways that species interact with their physical environment in a variety of ecosystems will be studied. The Major makes full use of the unique physical setting and faculty expertise of McGill's Macdonald campus to train students to become ecologists, taxonomists, field biologists, and ecosystem scientists.

## Program Prerequisites

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

## Required Courses (36 credits)

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 & Community Ecology
ENVB 410	(3)	Ecosystem Ecology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

## Complementary Courses (18 credits)

6 credits from the following:

ENTO 330	(3)	Insect Biology
ENVB 301	(3)	Meteorology
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 437	(3)	Assessing Environmental Impact
ENVB 497	(3)	Research Project 1
ENVB 498	(3)	Research Project 2

ENVB 529	(3)	GIS for Natural Resource Management
FAES 300	(3)	Internship 2
MICR 331	(3)	Microbial Ecology
PLNT 304	(3)	Biology of Fungi
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates
WOOD 441	(3)	Integrated Forest Management

### 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, 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

OR

#### Honours Plan B

A minimum of two 3-credit Honours project 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 project must be 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 project.

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

### Specialization

At least one specialization of 18-24 credits.

Specializations designed to be taken with the Environmental Biology Major:

- Applied Ecology
- Plant Biology
- Wildlife Biology

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

### Electives

To meet the minimum credit requirement for the degree.

#### 2.6.2.1.7 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Major Global Food Security (42 credits)

The program provides a global perspective on agriculture and food security, and addresses issues related to rural development, malnutrition, poverty and food safety with special emphasis on the developing world. Using a multidimensional and multidisciplinary approach, the program provides students with a comprehensive set of courses at McGill in combination with hands-on experience through structured internships and study abroad opportunities. The field experience (short courses, internships or full semester) includes project development in local communities, observing subsistence agriculture in situ and participating in various activities which sensitize students to the challenges that countries face to feed their people. Students will have the opportunity to develop the knowledge base needed for successful careers in ag

Program Director: Professor Sergio Burgos

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

**Program Prerequisites**

Refer to "F

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

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)**

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
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
LSCI 451	(3)	Research Project 1
LSCI 452	(3)	Research Project 2
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
PARA 424	(3)	Fundamental Parasitology
PLNT 304	(3)	Biology of Fungi



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 Agricultural) Major:

- Animal Biology
- Animal Health and Disease
- Life Sciences (Multidisciplinary)
- Microbiology and Molecular Biotechnology

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.

#### 2.6.2.2 Specializations

The faculty offers the following specializations, to be paired with a B.Sc.(Ag.Env.Sc.) major. Each major program description suggests a complementary specialization, though another may be selected following a consultation with your academic adviser.

##### 2.6.2.2.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Agribusiness (24 credits)

The development of commercial agriculture relies on a large supporting sector of manufacturing and service companies involved in the supply of inputs to farming and the transportation, processing, and marketing of agricultural and food products.

This 24-credit specialization includes courses in agricultural sciences, agribusiness, and courses at the Desautels Faculty of Management.

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

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

#### Required Courses (15 credits)

AEBI 210	(3)	Organisms 1
AGEC 242	(3)	Management Theories and Practices
AGEC 332	(3)	Farm Management and Finance
AGEC 450	(3)	Agribusiness Management
ANSC 250	(3)	Principles of Animal Science

#### Complementary Courses (9 credits)

9 credits chosen from the following list:

ACCT 361	(3)	Management Accounting
AGRI 310	(3)	Internship in Agriculture/Environment
BUSA 364	(3)	Business Law 1
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 382	(3)	International Business
MGSC 373	(3)	Operations Research 1
ORGB 321	(3)	Leadership

#### **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 large mammals and birds. Successful completion of the program should enable students to qualify for application to most veterinary colleges in North America, to study in a variety of postgraduate

ANSC 433	(3)	Animal Nutrition and Metabolism
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 the Major Agro-Environmental Sciences and the specialization in Professional Agriculture, it conforms with the eligibility requirements of the Ordre des agronomes du Québec.

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

##### Required Courses (24 credits)

ANSC 234	(3)	Biochemistry 2
ANSC 301	(3)	Principles of Animal Breeding
ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production

#### 2.6.2.2.5 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - 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 ecosystems to provide the benefits and services we value. In the Applied Ecology minor 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>

##### Required Courses (12 credits)

ENVB 305	(3)	Population & 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 selected from the following:

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
BREE 327	(3)	Bio-Environmental Engineering
ENTO 440	(3)	Insect Diversity
ENVB 301	(3)	Meteorology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
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
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 (9 credits)**

ENVB 305	(3)	Population & Community Ecology
ENVB 437	(3)	Assessing Environmental Impact Quantitati

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 & 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 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

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.

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

#### Required Courses (9 credits)

PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology

#### Complementary Courses (15 credits)

15 credits of complementary courses selected from:

ANSC 326	(3)	Fundamentals of Population Genetics
BINF 511	(3)	Bioinformatics for Genomics
ENVB 313	(3)	Phylogeny and Biogeography
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 310	(3)	Plant Propagation
PLNT 435	(3)	Plant Breeding
PLNT 460	(3)	Plant Ecology

#### 2.6.2.2.12 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Plant Production (24 credits)

This specialization provides students with the knowledge and skills relating to the biology and physiology, breeding, propagation, and management of domesticated plants. The plant industry, in both rural and urban settings, is a sector of growing importance to Canadian and global economies. Graduates are prepared for employment in horticulture or in field crop development, production, and management, in government services, extension, teaching and consulting; or for graduate and postgraduate studies. When taken in conjunction with the Major Agro-Environmental Sciences 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 (18 credits)

PLNT 300	(3)	Cropping Systems
PLNT 305	(3)	Plant Pathology
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





3 credits from:

WILD 401	(4)	Fisheries and Wildlife Management
WILD 420	(3)	Ornithology

**Complementary Courses (8 credits)**

Note: A 2-credit course may replace one of the complementary courses with permission of the advisor.

BIOL 307	(3)	Behavioural Ecology
BIOL 427	(3)	Herpetology
ENVB 437	(3)	Assessing Environmental Impact
ENVB 506	(3)	Quantitative Methods: Ecology
PARA 424	(3)	Fundamental Parasitology
PLNT 358	(3)	Flowering Plant Diversity
WILD 302	(3)	Fish Ecology
WILD 421	(3)	Wildlife Conservation
WILD 475	(3)	Desert Ecology

**2.6.3 Bachelor of Engineering (Bioresource) – B.Eng.(Bioresource)**

For more information on this major, please see [section 2.5.4: Bachelor of Engineering in Bioresource Engineering – B.Eng.\(Bioresource\) \(Overview\)](#).

**2.6.3.1 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Major Bioresource Engineering (113 credits)**

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

**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 & 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



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

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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 & 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



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 Study Semester](#).

#### 2.6.3.4.3 Internship Opportunities and Co-op Experiences

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
		Post Harvest Fruit and Vegetable

FDSC 495D2	(1.5)	Food Science Seminar
FDSC 525	(3)	Food Quality Assurance
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

**Additional Required Courses - Food Science Option (21 credits)**

FDSC 233	(3)	Physical Chemistry
FDSC 305	(3)	Food Chemistry 2
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 405	(3)	Food Product Development
FDSC 516	(3)	Flavour Chemistry
FDSC 540	(3)	Sensory Evaluation of Foods

**Elective Courses (18 credits)**

Electives are selected in consultation with an academic adviser, to meet the minimum 90-credit requirement for the degree. dthealsodqlityft appl eoogn992ad bsth sfInsti

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
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

#### Additional Required Courses - Food Science Option (21 credits)

FDSC 233	(3)	Physical Chemistry
FDSC 305	(3)	Food Chemistry 2
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 405	(3)	Food Product Development
FDSC 516	(3)	Flavour Chemistry
FDSC 540	(3)	Sensory Evaluation of Foods

#### 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 project. **439.081 Tm(oxns/F62 ith4 0 0 1 Tthetopic(and thestudent's major)Tarch Pr must be**

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

**Honours Plan L m230.61 Tm401u3j1 0 I30.61 Tm(s Plan L m230.61ue52 358.848 TS18ul(T)1 0 0 1 1F1 67.52 321.30T,43 TmQ(oods)Tj1 0 0r.04**

**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 Chemistry 2
FDSC 315	(3)	Separation Techniques in Food Analysis 1
FDSC 334	(3)	Analysis of Food Toxins and Toxicants
FDSC 405	(3)	Food Product Development
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 in-tirement for the de

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 446	(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)	Bioenergetics and the Lifespan

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 Herbs, Foods and Phytochemicals

FAES 402	(6)	Honours Research Project 2
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### 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 446	(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.\(Nutr.Sc.\) \(Overview\)](#) for advising and other information regarding the Dietetics and Nutrition majors.

#### **2.6.5.1 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Dietetics (115 credits)**

The Major Dietetics, which includes a 40-week internship (Stage) as part of its degree requirements, is a professional program that leads to eligibility for membership in a provincial regulatory body and re

NUTR 446	(3)	Applied Human Resources
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 505	(3)	Public Health Nutrition
NUTR 508*	(7)	Professional Practice Stage 4A
NUTR 509*	(7)	Professional Practice Stage 4B
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3

### Complementary Courses (3 credits)

3 credits (200 level or higher) in human behavior social science from the following list, or another 3-credit human behavior course approved by your adviser.

EDPE 300	(3)	Educational Psychology
NUTR 301	(3)	Psychology
PSYC 215	(3)	Social Psychology
SOCI 210	(3)	Sociological Perspectives

### Elective Courses (3 credits)

Students who need to improve their proficiency in either English or French are strongly encouraged to choose their electives for that purpose. Students who wish to take language courses should check with the French Language Centre, Faculty of Arts, as placement testing may be required. Students are encouraged to develop a working knowledge of French in order to optimize their participation and learning in Stage placement sites. Similar to the language policy for Medicine, a functional working knowledge of French is expected by second year. Alternate elective choices may include, but are not limited to:

AEHM 300	(3)	ESL: High Intermediate 1
AEHM 301	(3)	ESL: High Intermediate 2
AEHM 330	(3)	Academic and Scientific Writing
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Bioenergetics and the Lifespan
NUTR 512	(3)	Herbs, Foods and Phytochemicals

### A Compulsory Immunization

A compulsory immunization program exists at McGill which is required for Dietetics students to practise. Students should complete their immunization before or soon after arriving at Macdonald campus; confirmation of immunization will be coordinated by the Health nurse through Student Services (<http://www.mcgill.ca/studenthealth/>). Certain deadlines may apply.

### 2.6.5.2 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Food Function and Safety (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 food function and safety covers the ranges from health effects of phytochemicals and food toxicants, food chemistry and analysis, food safety, product development and influence of constituents of food on health. 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/m/y1tr> in the 0 1 325.01 This de

FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 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 courses:

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)	Bioenergetics and the Lifespan
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:

AGRI 510	(3)	Professional Practice
ANSC 350	(3)	Food-Borne Pathogens
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 405	(3)	Food Product Development
FDSC 442	(3)	Food Microbiology
	(3)	Flavour Chemistry

## Herbs, Foods and Phytochemicals

### **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.

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

This Major offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan. This concentration emphasizes the influence of diet and nutrition on human health and the pathophysiology of chronic disease. This degree does not lead to professional licensure as a dietitian/nutritionist. Graduates are qualified for careers in health research, 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 "F15 credits of ElectiG4Bm., methophC0 1 152prior 2 6991 15310 129ndA>Sta615. 635.Meronds 1186.123 694.0221 Tm5310 129ndA>(3 Tf1 0 0 1 67.84.73



FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Bioenergetics and the Lifespan
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
PARA 424	(3)	Fundamental Parasitology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology

### **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.

### **Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Nutritional Biochemistry (90 credits)**

ANSC 424	(3)	Metabolic Endocrinology
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)	Bioenergetics and the Lifespan
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 tak

NUTR 344	(4)	Clinical Nutrition 1
NUTR 401	(1)	Emerging Issues in Nutrition
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 503	(3)	Bioenergetics and the Lifespan
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 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)	Exercise Pathophysiology 2
EDKP 485	(3)	Exercise Pathophysiology 1
EDKP 495	(3)	Scientific Principles of Training
EDKP 542	(3)	Environmental Exercise Physiology
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.

## **2.6.5.7 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 \(Overview\)](#). F

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
AGEC 332	(3)	Farm Management and Finance
AGEC 425	(3)	Applied Econometrics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGEC 450	(3)	Agribusiness Management Research & Methodology



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 Mechanisms of P



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
WILD 420	(3)	Ornithology

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

The Minor Ecological Agriculture is designed to focus on the principles underlying the practice of ecological agriculture and is suitable for students wishing to farm and do extension and government work, and those intending to pursue postgraduate studies in this field.

This Minor can be associated with existing major programs in the Faculty, b

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 En



(3)(3)

Environment and Infection

MICR 331	(3)	Microbial Ecology
NUTR 341	(3)	Global Food Security
PARA 424	(3)	Fundamental Parasitology
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology
SOIL 326	(3)	Soils in a Changing Environment
WOOD 441	(3)	Integrated Forest Management

**2.6.7.2 Certificate (Cert.) Food Science (30 credits)**

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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 Department of Geography, F

### 2.7.1.2 About the Department of Animal Science

There are excellent programs available for those students interested in the study of animal science at the undergraduate level. Whether students are interested in the improvement of livestock production from the point of view of nutrition, breeding, reproduction, and welfare; the study of animals in a health context; or even the advancement of biotechnological processes in laboratory research and animal models to better understand human health and disease, there is a specialization that will appeal to those needs.

The Department of Animal Science plays a crucial role in the offering of four important specializations:

- Animal Biology
- Animal Health and Disease
- Animal Production
- International Agriculture

Each of these specializations must be taken within the context of a major, depending on the orientation of a student towards animal production management, animal biotechnology, further studies in animal health, international studies, and/or graduate studies.

A student with an interest in animals, who wishes to become a professional agrologist (a member of the *Ordr*

**Affiliate Member**

René Lacroix





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**

F 8 Tm (Pr)Tj 1Roma 76.6l a5 8.1 Tf (Tf Cus41 0 0 -6Tf 559.801 Tm (receim (Tf Cus41dal 1)Tjp6ta of Cus4

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

FMT4 023	(1.33)	Building Management (152-VSZ-MC)
FMT4 024	(1.67)	Farm Building Development (152-VTA-MC)
FMT4 025	(2.33)	Enterprise Management 3 (152-VTB-MC)
FMT4 026	(1.67)	Human Resources (152-VTC-MC)
FMT4 027	(1.33)	Precision Agriculture (152-VTD-MC)
FMT4 087	(2)	Humanities 3: Env. & Org. Issues (345-VSH-MC)
	(1.33)	

**Plant Science Category**

FMT4 033	(2.67)	Vegetable and Fruit Crops (152-VTK-MC)
FMT4 034	(2.67)	Greenhouse Crop Production (152-VTL-MC)
FMT4 035	(2.67)	Field Crop Management 1 (152-VTM-MC)
FMT4 036	(2.67)	Field Crop Management 2 (152-VTN-MC)

**Complementary Courses\***

Students must take two complementary courses to meet the program requirements. The program offers the following.

\* After consultation with their academic adviser, students can substitute complementary courses taken at another collegial institution. This includes science courses which are required for further studies in a degree program. The cost associated with courses taken elsewhere must be assumed by the students.

FMT4 074	(2)	Complementary Course 2
FMT4 097	(2)	Landscape Design (504-VSG-MC)

**Comprehensive Assessment**

The objective of this examination is to ensure that students have attained the objective

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 and a minimum IELTS score of 6.5 is required (other English proficiency exams are also accepted by McGill).

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

The number of teaching and examination days is set by the *Ministère de l'Éducation et de l'Enseignement supérieur* (MEES). The sessional dates vary from year to year. At the present time, each semester has 75 teaching days and seven days of exams.

##### 2.7.3.5.2.2 Last Day for Withdrawal or Course Additions

The last day to make course registration changes for Fall term courses is **September 20**.

The last day to make course registration changes for Winter term courses is **February 15**.

#### 2.7.3.5.3 Registration – FMT

Students in the Farm Management and Technology program must register online using Minerva at [www.mcgill.ca/minerva](http://www.mcgill.ca/minerva) for each semester at McGill.



**Note:** The University reserves the right to make changes without prior notice to the information contained in this publication, including the alteration of various fees, schedules, conditions of admission and credit requirements, and the revision or cancellation of particular courses. In normal circumstances, individual courses will not be offered with fewer than five registrants.

#### 2.7.3.5.4 Academic Standing – FMT

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## **2.7.3.6 Fees and Expenses – FMT**

### **2.7.3.6.1 Fees**

Tuition fees for all full-time students who are eligible for the Farm Management and Technology program are paid by the *Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec*. Student Services and Student Societies' fees, as well as course material fees, will be charged according to the schedule in effect for all Macdonald campus students. At the time of publishing, the fees\* were \$1091.04 for the Fall semester, and \$778.28 for the Winter semester for Quebec residents. Additional fees will apply to out-of-province students.

\* 2019–2019 fees; 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; ho



licensure as a Dietitian/Nutritionist. However, it is excellent preparation for further studies including graduate, medical, veterinary, and other professional schools; or for many careers in the food, pharma, or other industry, government or NGO, or global health organizations.

**B.Sc.(F.Sc.)/B.Sc.(Nutr.Sc.):** The School also offers a dual degree, the **B.Sc. Food Science/Nutritional Science Major**, which is a 122-credit undergraduate degree. You will obtain a strong background in chemical sciences regarding the physical nature and chemical properties of foods, combined with an advanced understanding of the important role of nutrition and metabolism in health and disease.

For more information on programs associated with this school, see [section 2.6.5](#)



### **Assistant Professors**

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

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

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

### **Academic Associate**

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

### **Senior Faculty Lecturers**

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

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

Maureen Rose; B.Sc., M.Ed., Ph.D.(McG.), Dt. P. (*Director, Food and Nutrition Laboratories*)

### **Faculty Lecturers**

Paul-Guy Duhamel; B.Sc.(McG.), M.Sc.(Montr.), Dt. P. (*Manager, Food and Nutrition Laboratories*)

Mary Hendrickson; B.A.(St. Benedict), B.Sc.(Minn.), M.Sc.(Colo. St.), Dt. P.

Joane Routhier; B.Sc.(McG.)

### **Sessional Lecturers**

Peter Bender; B.Ed., M.A.(McG.), Ph.D.(Flor. St.)

Francesca Cambria; B.Com., Gr.Dip(C'dia)

Diana Dallmann; B.Sc.(National University of Asunción), M.Sc.(Nuestra Señora de la Asunción)

Michèle Iskandar; B.Sc., M.Sc.(American University of Beirut), Ph.D.(McG.)

Steven Landry; B.Com., B.Ed., M.B.A.(McG.)

Patrick Owen; B.Sc., M.Sc., Ph.D.(McG.)

Dina Spigelski; B.A., B.Sc., M.Sc.(McG.)

### **Associate Members**

*Anaesthesia:* Franco Carli, Thomas Schricker

*Kinesiology:* Ross Andersen

*Medicine:* L. John Hoffer, Larry Lands, José Morais

*Nursing:* Rosetta Antonacci

*Parasitology:* Marilyn E. Scott

### **Adjunct Professor**

Kevin A. Cock

## Affiliate Members

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

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

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

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

### 2.7.5.5 Application Procedures

The academic year at McGill is made up of two sessions: the Fall/Winter (regular) session and the Summer session. These are subdivided into the Fall term (September to December), the Winter term (January to April) and the four months of the Summer session (May, June, July, and August). While most students enter in September, it is possible to be considered for admission to most of the Agricultural and Environmental Studies undergraduate programs in January. Entry at the Freshman Program level or to the Dietetics Major, however, are not available in January.

The deadlines for submission of applications are:

- Applicants studying outside of Canada: **January 15**
- Applicants from Canadian high schools outside of Quebec: **February 1**
- All other applicants:

Physics – NYA, NYB, NYC (00UR, 00US, 00UT).

Based upon entry with the appropriate DEC, the **B.Sc.(Nutr.Sc.)** is offered as a 90-credit, three-year program for Nutrition and a 115-credit, three and one-half year program for Dietetics. Refer to [section 2.6.5: Bachelor of Science \(Nutritional Sciences\) – B.Sc.\(Nutr.Sc.\)](#) for program details.

#### 2.7.5.6.2 Applicants from Ontario

Applicants from Ontario must have completed the Ontario Secondary School Diploma (OSSD) prior to the start of classes with a minimum of six 4U and/or 4M courses.

The following prerequisite courses are required for admission into the School of Nutrition, and will be included when calculating your "Top 6" pre-university course average:

- 4U Calculus and Vectors
- Two of 4U Biology, Chemistry, or Physics
- 4U English or French (see below for additional information on language requirements)

Students who are accepted on the basis of a high school diploma enter a program which is extended by one year to include the 30 credits which comprise the **Freshman Year** (see [section 2.6.1.4: Bachelor of Science \(Nutritional Sciences\) \(B.Sc.\(Nutr.Sc.\)\) - Freshman Program \(30 credits\)](#)). Students who complete the IB Diploma or individual IB Diploma Courses, however, may be granted advanced standing credits based on their final IB results.



**Note:** Admission to the Freshman Year is available for the Nutrition major only, not the Dietetics major. Students who wish to enter Year 1 of the Dietetics major and who first need to complete a freshman year, may complete the freshman year in the Nutrition Major, and then apply for transfer to year 1 of the Dietetics Major. Entry to Year 1 of the Dietetics major is based on CGPA.

If you come from a school where the language of instruction is English, then 4U-level English must be included in the six courses. If you come from a school where the language of instruction is French, then 4U-level French must be included in the six courses. English and French Second Language courses are not accepted as prerequisites.

At least four of the six required courses, as well as all prerequisite courses, must be taken at the 4U level. Admissions criteria will focus primarily on the top six 4U/M courses (including specified prerequisite courses). Generally speaking, all grades are taken into consideration in determining admission, including those of failed or repeated courses.

McGill reserves the right to revise its admission requirements without prior notice.

#### 2.7.5.6.3 Applicants from Other Canadian Provinces

Applicants from provinces other than Quebec and Ontario must hold:

- a high school diploma giving access to university education in their province/territory;

and must have completed:

- Grade 12 Mathematics (pre-calculus);
- two of: Grade 12 Biology, Chemistry, or Physics;
- Grade 12 English or French (see note below explaining when English or French is required).

Students who are accepted on the basis of a high school diploma enter a program which is extended by one year to include the 30 credits which comprise the **Freshman Year** (see [section 2.6.1.4: Bachelor of Science \(Nutritional Sciences\) \(B.Sc.\(Nutr.Sc.\)\) - Freshman Program \(30 credits\)](#)).



**Note:** Admission to the freshman year is available for the Nutrition major only, not the Dietetics major. Students who wish to enter Year 1 of the Dietetics major, and who first need to complete a freshman year, may complete the freshman year in the Nutrition Major, and then apply for transfer to year 1 of the Dietetics Major. Entry to Year 1 of the Dietetics major is based on CGPA.

Consideration will be given to the results for Grade 11 and 12 level courses (regardless of the calendar year in which they were taken), with emphasis on grades obtained in courses most relevant to the intended program of study. Generally speaking, all grades are taken into consideration in determining admission, including those of failed or repeated courses.

If the applicant comes from a school where the language of instruction is English, then Grade 12 English must be included in the academic record. If the applicant comes from a school where the language of instruction is French, then Grade 12 French is required. English and French Second Language courses are not accepted as prerequisites.

#### 2.7.5.6.4 Applicants from U.S. High School Programs

Applicants who are applying on the basis of a high school diploma from a school in the United States must have completed a pre-calculus course in functions, and at least two of biology, chemistry, and physics. Applicants must write College Entrance Examination Board tests including the SAT I and three SAT IIs. SAT IIs must include mathematics and at least one science. ACTs are also acceptable.

Applicants who have completed Advanced Placement Examinations in appropriate subjects with a grade of 4 or better will be granted some advanced standing, up to a maximum of 30 credits.

Students who are accepted on the basis of a high school diploma enter a program which is extended by one year to include the 30 credits which comprise the **Freshman Year** (see [section 2.6.1.4: Bachelor of Science \(Nutritional Sciences\) \(B.Sc.\(Nutr.Sc.\)\) - Freshman Program \(30 credits\)](#)).



**Note:** Admission to the freshman year is available for the Nutrition major only, not the Dietetics major. Students who wish to enter Year 1 of the Dietetics major, and who first need to complete a freshman year, may complete the freshman year in the Nutrition Major, and then apply for transfer to year 1 of the Dietetics Major. Entry to Year 1 of the Dietetics major is based on CGPA.

#### 2.7.5.6.5 Applicants from Other Countries

The normal basis for review of a file is completion of the credentials which lead to university admission in the applicant's country of study.

Students from the United Kingdom and Commonwealth countries may be admitted if they have completed Advanced Level examinations in chemistry, physics, and mathematics with two Bs and one C or better in each, and five appropriate G.C.S.E. subjects at the Ordinary Level, including biology and English.

Advanced Level examination results which are appropriate to the intended program of studies will be assessed for advanced standing and credit when the results are received directly from the appropriate Examination Board. A maximum of 30 credits is granted for Advanced Level papers and a maximum of 10 credits for papers in Mathematics. Credit is normally granted only for grades of C or better.

Students who have a very good academic record in Lower Form VI and excellent results in at least five G.C.S.E. subjects at the Ordinary Level may be considered for admission to a program requiring the completion of a minimum of 120 credits.

For students applying on the basis of the French Baccalaureate, the minimum requirement is the Diploma in Series S in the “*Première Groupe*” with Mention “*assez bien*”.



**Note:** Admission to the freshman year is available for the Nutrition major only, not the Dietetics major. Students who wish to enter Year 1 of the Dietetics major, and who first need to complete a freshman year, may complete the freshman year in the Nutrition Major, and then apply for transfer to year 1 of the Dietetics Major. Entry to Year 1 of the Dietetics major is based on CGPA.

#### 2.7.5.6.6 Applicants with the International Baccalaureate

Applicants should have completed Higher or Subsidiary Level mathematics and normally two of biology, chemistry, or physics. Ten advanced standing credits may be granted for mathematics and science Higher Level subjects completed within the IB Diploma, up to the maximum of 30 credits, while 6 credits will be given for non-science Higher Level examinations taken as part of the Diploma or for Higher Level Certificate subjects.

#### 2.7.5.6.7 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. A minimum of 60 credits of work must be completed at McGill if a degree is to be granted. Students must also fulfil the requirements of a degree program. Credits are determined only once a formal application and all the necessary supporting documents are received.

Basic science requirements are:

- two semesters of biology;
- two semesters of general chemistry, with labs;
- one semester of organic chemistry;
- two semesters of physics (including mechanics, electricity and magnetism, and waves and optics), with labs;
- one semester in each of differential and integral calculus.

A grade of B or better is expected in prerequisite mathematics and science courses.

This same policy is applicable to holders of undergraduate degrees.

#### 2.7.5.6.8 Transfer Students – Interfaculty

Students wishing to transfer from one faculty to another must complete an interfaculty transfer form. The deadline for submitting a transfer form for admission to the School is **June 1** for admission in September and **December 1** for admission in January. There are no Winter term transfers for the Dietetics major.

For CGPA requirements please see [www.mcgill.ca/macdonald/studentinfo/undergrads/readmission](http://www.mcgill.ca/macdonald/studentinfo/undergrads/readmission). For more information, please refer to [University Regulations and Resources](#) > Undergraduate > Registration > [section 1.3.6: Interfaculty Transfer](#).

#### 2.7.5.6.9 Mature Student Admission

Residents of Canada who will be 23 years of age or older by September 1 (for admission for the Fall session) or January 1 (for admission for the Winter session) and who lack the academic background normally required for admission may apply for entrance as mature students.

Mature students must complete all entrance math/science requirements during their first year. This may require an additional year to the program due to the availability of required courses. Individuals interested in being considered for entrance under this policy should contact the [Student Affairs Office](#) for complete details.



**Note:** Mature students who are missing science entrance prerequisites are admitted to the Nutrition Major, not the Dietetics Major. Those wishing to complete the science entrance prerequisites and then transfer to the Dietetics Major should consult [www.mcgill.ca/macdonald/studentinfo/undergrads/readmission](http://www.mcgill.ca/macdonald/studentinfo/undergrads/readmission).

## **2.7.5.7 Academic Information and Regulations**

### **2.7.5.7.1 Academic Standing**

Bachelor programs with a Major in Nutrition will normally be completed in three academic years or six semesters (following the Freshman Year, if one is required). Bachelor programs with a Major in Dietetics will normally be completed in three and one-half academic years. For the purpose of student classification, the years will be termed U1, U2 and U3.

- U1: the first 12 months following each admission to a degree program in which the student is required to complete 72 or more credits at the time of admission.
- U2: to be used for all students who are not U1 or U3.
- U3: the session in which it is expected the student will qualify to graduate.

Further information and regulations on Academic Standing are available at [section 2.4.6: Faculty Information and Regulations](#).

### **Academic Advisers**

Before registration, all students entering the Faculty must consult with the Academic Adviser of their 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 the student's studies in the Faculty.

A Faculty Adviser is also available in the [Student Affairs Office](#) to assist students with student record related matters.

### **2.7.5.7.2 Degree Requirements**

To be eligible for a B.Sc.(Nutr.Sc.), students must have passed, or achieved exemption, with a minimum C grade in all required and complementary courses of the program. They must have a CGPA of at least 2.00.

In addition, students in the Dietetics program must have completed the Professional Practice Stages of professional formation, which require a minimum CGPA of 3.00.

### **2.7.5.7.3 Minimum Credit Requirement**

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

Please refer to [section 2.4.6: Faculty Information and Regulations](#) for further information.

## **2.7.6 Department of Natural Resource Sciences**

### **2.7.6.1 Location**

Macdonald-Stewart Building, Room MS3-039  
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](mailto:info.macdonald@mcgill.ca)  
Website: [www.mcgill.ca/nrs](http://www.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 air, water, food, and energy, but also depend on ecosystems for services such as nutrient cycling, biodiversity, recreation, and the splendour of nature. Sustainable management of natural resources via governance of human activities requires an understanding of all of these elements.

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 diversity of organisms within ecosystems; the flow of energy and nutrients through ecosystems; and processes that influence human behaviour toward ecosystem services and the environment. Our graduate programs in agricultural economics, entomology, microbiology, and renewable resources, allow students to gain disciplinary depth and interdisciplinary breadth.

Natural Resource Sciences plays a strong role in several undergraduate programs, from the inter-departmental **Majors** in:

- Environmental Biology;
-

- Agricultural Economics;

to the **Specializations** such as:

- Applied Ecology;
- Wildlife Biology;
- Microbiology and Molecular Biotechnology;
- Agribusiness; and
- Environmental Economics.

### 2.7.6.3 Natural Resource Sciences Faculty

#### Chair

Brian Driscoll

#### Graduate Program Director

Benoît Côté

#### Program Director - Agricultural Economics

Paul J. Thomassin

#### Emeritus Professors

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

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

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

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

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

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

#### Professors

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

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

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

Paul J. Thomassin; B.Sc.(McG.), M.S., Ph.D.(Hawaii Pac.) – *Guelph9 -5.rasv6.399 350.16 Tml6p5(\*)6.753 318.72 TmS1 RGET67.52 511.387 m67.52 527.107r* –

**Associate Professors**

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

**Assistant Professors**

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

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

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

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

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

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

**Associate Member**

Christopher Barrington (*School of Environment*)

David Green (*Redpath Museum*)

**Adjunct Professors**

Asim Biswas

Kimberly Fernie

Charles W. Greer

Baoluo Ma

Christopher Solomon

**Affiliate Member**

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](mailto:graduate.parasitology@mcgill.ca)  
Website: [www.mcgill.ca/parasitology](http://www.mcgill.ca/parasitology)

**2.7.7.2 About the Institute of Parasitology**

The Institute of Parasitology is one of the oldest recognized centres of interdisciplinary research in Canada. We focus on parasitic organisms, the relationship with their host, and the means to limit the impact of parasitic disease on health and well-being.

For more information, please visit the Institute of Parasitology [website](#).

**2.7.7.3 Parasitology Faculty****Director**

Armando Jardim

## Professors

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

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

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



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**Instructional Staff**

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## Instructional Staff

Ronholm, Jennifer; B.Sc.(Wat.), Ph.D.(Ott.); Assistant Professor, Food Safety

Rose, Maureen; B.Sc.(F.Sc.), M.Ed., Ph.D.(McG.); Senior Faculty Lecturer (Stage), Human Nutrition

Routhier, Joane; B.Sc.(F.Sc.)(McG.); Faculty Lecturer (Stage), Human Nutrition

Roy, Denis; B.Sc.(Qu.), M.Sc.,Ph.D.(Windsor); Assistant Professor, Population Genetics/Genomics

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

Scott, Marilyn E.; B.Sc.(New Br.), Ph.D.(McG.); Associate Dean (Academic) and Professor, Parasitology

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

Simpson, Benjamin K.; B.Sc.(Univ. Sc. & Tech., Kumasi), Ph.D.(Nfld.); Professor, Food Science and Agricultural Chemistry

Singh, Jaswinder; B.Sc., M.Sc.(Punjab Agricultural University), Ph.D.(Syd.); Associate Professor, Plant Science

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

Strachan, Ian; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.); Associate Professor, Agrometeorology and Associate Dean (Graduate Studies)

Stromvik, Martina V.; B.A., M.S.(Stockholm), Ph.D.(Ill.-Chic.); Associate Professor, Plant Science and Chair, Department of Plant Science

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has over 275 tenured or tenure-track scholars, over 6,000 undergraduates, over 1,000 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, during, and upon their return from, their internship. Each year over 200 students intern with organizations around the globe.

McGill is known throughout the world as one of Canada's premier institutions of learning and as one of the leading research universities in the world. Professors at McGill are leaders in their fields and leaders in education and have been the recipients of numerous awards for both research and teaching. The Faculty of Arts prides itself on being immediately responsive to developments and changes within and outside academia and dev

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 are now 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 AIO stands alone nationally in the scope and extent of services its established infrastructure and comprehensive support system make available to students before, during, and upon their return from their internship. Each year over 200 students intern with organizations around the globe.

McGill Arts graduates are valued for their ability to think critically and communicate effectively, often in more than one language. Their skills in research and analysis may be applied to a wide spectrum of professional fields, such as law, education, business, government, and public service.

The Faculty of Arts offers programs leading to the degrees of B.A. and B.S.W. Admission is highly competitive; fulfilment of the minimum admission requirements does not guarantee acceptance. Admission criteria are described in the *Undergraduate Admissions Guide* at [www.mcgill.ca/applying](http://www.mcgill.ca/applying).

The Faculty of Arts also offers a Diploma in Environment from the McGill School of Environment. It is a 30-credit program available to holders of a B.Sc. or B.A. or equivalent. All credits for the Diploma must be completed at McGill. For more information, see [McGill School of Environment](#) > *Undergraduate* > *Browse Academic Programs* > [section 7.7.8: Diploma in Environment](#).

The Faculties of Arts and of Science also jointly offer programs leading to the degree of the Bachelor of Arts and Science (B.A. & Sc.), which is described in [Bachelor of Arts and Science](#).

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## About Arts (Undergraduate)

### 3.4.2 Administrative Officers

#### Dean

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

#### Associate Deans

Jim Engle-Warnick; BSEE(Akron), M.B.A.(Carn. Mell), Ph.D.(Pitt.) (*Research and Graduate Studies*)

Gillian Lane-Mercier; B.A., M.A.(Montpellier III), Ph.D.(McG.) (*Academic and Administrative Oversight*)

Miranda Brun Hickman; B.A.(Brown), M.A., Ph.D.(University of Michigan, Ann Arbor) (*Student Affairs - Acting 2018-19*), Arts OASIS

Lucyna M. Lach; B.A., M.S.W., Ph.D.(Tor.) (*Student Affairs - Sabbatic Leave 2018-19*), Arts OASIS

#### Course and Program Officer

Susan Sharpe

### 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, registration issues, exams, rereads, 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 via email at [adviser.arts@mcgill.ca](mailto:adviser.arts@mcgill.ca).

Arts OASIS advisers also approve course selection for U0 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 [www.mcgill.ca/oasis](http://www.mcgill.ca/oasis).

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## 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 Admissions Guide*, found at [www.mcgill.ca/applying](http://www.mcgill.ca/applying).

For information about interfaculty transfers, please refer to *University Regulations and Resources* > Undergraduate > *section 1.3.6: Interfaculty Transfer*, as well as to the relevant information posted on the Arts OASIS website at [www.mcgill.ca/oasis](http://www.mcgill.ca/oasis).

(For information about readmission, please refer to the *Arts OASIS website*.)

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## 3.6 Faculty Degree Requirements

Each student in the Faculty of Arts must be aware of the Faculty regulations as stated in this publication and on the McGill, Arts, and Arts Office of Advising and Student Info





This 30-credit option has a core requirement of 18 credits completed by selecting 6 credits in each of three of the four Arts subject categories: social sciences, humanities, languages, and/or mathematics and science. Students select 12 additional credits from approved courses for Freshman students based on their interests. A maximum of 18 credits may be taken in an

## 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
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
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

## Substantive Content Courses Taught in French

Some subject area courses or "substantive content courses" are taught in French. Some courses may be offered in French and English in alternate years. POLI 226 listed below is such a course. When taught in French, such courses may be counted toward this program.

POLI 226	(3)	La vie politique québécoise
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## Remaining Credits (12 credits)

Students select the remaining credits (normally 12) for their Freshman year from a list of approved courses for Arts Freshman students. This list is found with requirements for the Freshman Program - General option on the Arts OASIS website at: <http://www.mcgill.ca/oasis/>.

### 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 view to timely completion of your degree and program requirements. No course may fulfil the requirements for more than one program or concentration requirement. You must complete one of the following program streams:

#### 3.6.4.2.1 Bachelor of Arts Degree: Multi-Track System

To recognize the diversity of student backgrounds and interests and the multiple routes to understanding provided by a modern university, the Faculty of Arts offers a 90-credit multi-track system that includes a major concentration complemented by at least a minor concentration and that may be completed in one of the following ways:

##### Options

- A Major Concentration (36) + Minor Concentration (18) + 36 credits of electives
- B Major Concentration (36) + Major Concentration (36) + 18 credits of electives
- C Major Concentration (36) + Minor Concentration (18) + Minor Concentration (18) + 18 credits of electives

##### Regulations

- Within option A and option B, all Concentrations must be in different academic units. (If you are completing a second degree in the Faculty of Arts, this regulation is waived.)
- Within option C, one of the Minor Concentrations may be in the same unit as the Major Concentration. If you pursue a same-unit Minor Concentration, you will substitute additional complementary (non-required) courses to a total of 18 credits for any courses completed as a part of your Major Concentration within that unit.
- You will include within the 36 or 18 credits of your Major or Minor Concentration any university-level (200 or above) prerequisites to required courses within their Concentrations.

##### Definitions

- *Units*: academic departments or administrative equivalents.
- *Programs*: lists of required and complementary courses (including prerequisites for required courses) prepared and maintained by units.
- *Major Concentration*: a program of 36 credits taken from a unit's course offerings.
- *Minor Concentration*: a program of 18 credits taken from a unit's course offerings. Expandable Minor Concentrations are those which can, on the completion of 18 additional approved credits, be expanded into a Major Concentration within the appropriate unit.

#### 3.6.4.2.2 Bachelor of Arts Degree: Honours Program

Honours programs demand a high degree of specialization, and require you to satisfy specific departmental and Faculty Honours requirements while maintaining a good record of Ar

#### **3.6.4.2.4 Bachelor of Arts Degree: Faculty Programs**

A Faculty program is an approved selection of courses constituting a concentration in an intellectually coherent and interfaculty field of studies. These courses must include approved selections from one of the following:

- 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:
  - Industrial and Labour Relations
  - En

- 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-lev

5. For the purpose of this policy, courses taught in other faculties and specifically listed in the *Arts* or *Science* sections of the eCalendar are considered courses taught in the Faculties of Arts or Science.
- 6.

endeavour to teach the latest scholarly developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis. The maximum number of students in any seminar is 25, although some are limited to even fewer than that.

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 listing, see [section 3.10.1: First-Year Seminars](#).

The First-Year Seminars offered by the Faculty of Science are also open to Arts students. For a complete listing, see [Faculty of Science > Undergraduate > Faculty Degree Requirements > Course Requirements > section 11.6.5.5: First-Year Seminars: Registration](#).

### 3.6.5.10 Graduate-Level Courses

Enrolment of undergraduate students in 600-level courses

Policy:

An undergraduate student will be permitted to take 600-level courses subject to the following conditions:

- The student has a minimum CGPA of 3.3.
- The student is in U3 or higher.
- The professor of the course and the program adviser or the director of the undergraduate program provide written approval supporting the request.
- A maximum of 6 credits of 600-level courses are allowed toward the degree.
- The actual course number appears on the transcript.
- The course evaluation methods and grading standards are the same for all students, whether graduate or undergraduate.
- The regulations and practices of the Faculty of Arts are also applied to such a course.

A copy of the application form is available at the Arts OASIS counter.

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## 3.7 Advising

If you need 96 or fewer credits to complete your degree requirements, you must consult with a departmental academic adviser in your proposed department of study to obtain advice and approval of your course selection. To facilitate program planning, you must present your transcript(s) and letter of admission. For a detailed description of advising and registration procedures, you should refer to the [website for newly admitted undergraduate students](#), the [Arts OASIS website](#), and 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 should consult with a faculty adviser in Arts OASIS to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures as a Freshman student, refer to [University Regulations and Resources > Undergraduate > section 1.3: Registration](#) and [section 1.11: Undergraduate Advising](#); the [newly admitted undergraduate students website](#); and the [Arts OASIS website](#).

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## 3.8 Examinations

You should refer to [University Regulations and Resources > Undergraduate > Examinations: General Information > section 1.6.4: Final Examinations](#) for information about final examinations and deferred examinations.

The exam schedules are posted on the [McGill students website](#), 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.

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## 3.9 Overview of Programs Offered

### 3.9.1 Programs in the Faculty of Arts

The Faculty of Arts offers programs leading to the degrees of B.A., B.S.W, and B.Th. Admission is competitive; fulfilment of the minimum requirements does not guarantee acceptance. Admission criteria are described in the [Undergraduate Admissions Guide](#), found at [www](#)

### 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 man



## Minor Concentrations

**English - Literature** – [section 3.10.12.6: Bachelor of Arts \(B.A.\) - Minor Concentration English - Literature \(18 credits\)](#)

**English - Drama and Theatre** – [section 3.10.12.7: Bachelor of Arts \(B.A.\) - Minor Concentration English - Drama and Theatre \(18 credits\)](#)

**English - Cultural Studies** – [section 3.10.12.8: Bachelor of Arts \(B.A.\) - Minor Concentration English - Cultural Studies \(18 credits\)](#)

**Environment** – see [McGill 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, F**

## Minor Concentrations

**Operations 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 9.8.7.6: Bachelor of Commerce \(B.Com.\) - Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#)

**Persian Language** – [section 3.10.39.5: Bachelor of Arts \(B.A.\) - Minor Concentration Persian Language \(18 credits\)](#)

**Philosophy** – [section 3.10.31.4: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy \(18 credits\)](#)

**Political Science** – [section 3.10.32.6: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science \(18 credits\)](#)

**Psychology** – [section 3.10.33.4: Bachelor of Arts \(B.A.\) - Minor Concentration Psychology \(18 credits\)](#)

**Quebec Studies** – [section 3.10.22.7.4: Bachelor of Arts \(B.A.\) - Minor Concentration Quebec Studies & Community-Engaged Learning/ La concentration Mineure en Études sur le Québec et apprentissage par enga](#)

## Major Concentrations

**History** – *section 3.10.19.5: Bachelor of Arts (B.A.) - Major Concentration History (36 credits)*

**International Development Studies** – *section 3.10.23.4.4: 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 3.10.16.9: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)*

**Langue et littérature françaises - Traduction** – *section 3.10.16.10: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)*

**Latin American Studies** – *section 3.10.23.5.5: Bachelor of Arts (B.A.) - Major Concentration Latin American Studies (36 credits)*

**Liberal Arts** – *section 3.10.22.5.3: Bachelor of Arts (B.A.) - Major Concentration Liberal Arts (36 credits)*

**Linguistics** – *section 3.10.27.7: Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)*

**Mathematics** – *section 3.10.29.6: Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)*

**Music** – *section 3.10.30.7: Bachelor of Arts (B.A.) - Major Concentration Music (36 credits)*

**Philosophy** – *section 3.10.31.5: Bachelor of Arts (B.A.) - Major Concentration Philosophy (36 credits)*

**Political Science** – *section 3.10.32.7: Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)*

**Psychology** – *section 3.10.33.6: Bachelor of Arts (B.A.) - Major Concentration Psychology (36 credits)*

**Russian** – *section 3.10.26.25: Bachelor of Arts (B.A.) - Major Concentration Russian (36 credits)*

**Sociology** – *section 3.10.38.6: Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)*

**Software Engineering** – *section 3.10.7.6: Bachelor of Arts (B.A.) - Major Concentration Software Engineering (36 credits)*

**World Islam** – *section 3.10.33.2: Bachelor of Arts (B.A.) - Major Concentration World Islam (36 credits)*

## Honours Programs

**Italian Studies (Literature)** – [section 3.10.26.21: Bachelor of Arts \(B.A.\) - Honours Italian Studies \(54 credits\)](#)

**Jewish Studies** – [section 3.10.25.6: Bachelor of Arts \(B.A.\) - Honours Jewish Studies \(60 credits\)](#)

**Langue et littérature françaises - Études et pratiques littéraires** – [section 3.10.16.8: Baccalauréat ès Arts \(B.A.\) - Spécialisation enrichie Langue & littérature françaises - Études et pratiques littéraires \(72 crédits\)](#)

**Latin-American and Caribbean Studies** – [section 3.10.23.5.6: Bachelor of Arts \(B.A.\) - Honours Latin American and Caribbean Studies \(60 credits\)](#)

**Liberal Arts** – [section 3.10.22.5.4: Bachelor of Arts \(B.A.\) - Honours Liberal Arts \(60 credits\)](#)

**Linguistics** – [section 3.10.27.8: Bachelor of Arts \(B.A.\) - Honours Linguistics \(60 credits\)](#)

**Mathematics** – see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Mathematics and Statistics \(MATH\) > section 11.13.22.15: Bachelor of Science \(B.Sc.\) - Honours Mathematics \(63 credits\)](#)

**Philosophy** – [section 3.10.31.6: Bachelor of Arts \(B.A.\) - Honours Philosophy \(60 credits\)](#)

**Political Science** – [section 3.10.32.8: Bachelor of Arts \(B.A.\) - Honours Political Science \(54 credits\)](#)

**Psychology** – [section 3.10.33.7: Bachelor of Arts \(B.A.\) - Honours Psychology \(60 credits\)](#)

**Religious Studies** – [section 3.10.34.18: Bachelor of Theology \(B.Th.\) - Honours Religious Studies \(120 credits\)](#)

**Religious Studies - Asian Religions** – [section 3.10.34.13: Bachelor of Arts \(B.A.\) - Honours Religious Studies - Asian Religions \(60 credits\)](#)

**Religious Studies - Western Religions** – [section 3.10.34.14: Bachelor of Arts \(B.A.\) - Honours Religious Studies - Western Religions \(60 credits\)](#)

**Russian** – [section 3.10.26.26: Bachelor of Arts \(B.A.\) - Honours Russian \(60 credits\)](#)

**Sociology** – [section 3.10.38.7: Bachelor of Arts \(B.A.\) - Honours Sociology \(51 credits\)](#)

**World Islamic and Middle East Studies** – [section 3.10.39.10: Bachelor of Arts \(B.A.\) - Honours World Islamic & Middle East Studies \(60 credits\)](#)

### 3.9.6 Joint Honours Programs

There are two types of Joint Honours programs available in the Faculty of Arts:

- fully-integrated programs such as Mathematics and Computer Science;
- programs that are created by combining the Joint Honours program components from two Arts disciplines. 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).

Students can choose Joint Honours program components from **any two** of the following disciplines:

#### Joint Honours Programs

**Accounting** (*can only be combined with Economics*) – [section 3.10.9.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics / Joint Honours Component Accounting \(60 credits\)](#)

**African Studies** – [section 3.10.23.3.5: Bachelor of Arts \(B.A.\) - Joint Honours Component African Studies \(36 credits\)](#)

**Anthropology** – [section 3.10.4.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Anthropology \(36 credits\)](#)

**Art History** – [section 3.10.5.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Art History \(36 credits\)](#)

**Classics** – [section 3.10.19.11](#)

## Joint Honours Programs

**German Studies** – *section 3.10.26.14: Bachelor of Arts (B.A.) - Joint Honours Component German Studies (36 credits)*

**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 3.10.23.4.6: 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 Arts (B.A.) - Joint Honours Component Jewish Studies (36 credits)*

**Langue et littérature françaises - Études et pratiques littéraires** – *section 3.10.16.11: Baccalauréat ès Arts (B.A.) - Double Spécialisation Langue & littérature françaises - Études et pratiques littéraires (36 crédits)*

**Latin American and Caribbean Studies** – *section 3.10.23.5.7: Bachelor of Arts (B.A.) - Joint Honours Component Latin American and Caribbean Studies (36 credits)*

**Linguistics** – *section 3.10.27.9: Bachelor of Arts (B.A.) - Joint Honours Component Linguistics (36 credits)*

**Mathematics** – *section 3.10.29.7: Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)*

**Philosophy** – *section 3.10.31.7: Bachelor of Arts (B.A.) - Joint Honours Component Philosophy (36 credits)*

**Political Science** – *section 3.10.32.9: Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)*

**Psychology** – *section 3.10.33.8: Bachelor of Arts (B.A.) - Joint Honours Component Psychology (36 credits)*

**Religious Studies – Asian Religions** – *section 3.10.34.15: Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Asian Religions (36 credits)*

The Bachelor of Arts degree integrates the Humanities, Social Sciences, Languages, and Literatures, and a wide range of Interdisciplinary Studies into a coherent academic program. Students have considerable program flexibility. They may concentrate on one or more Arts disciplines while obtaining minor concentrations in other disciplines or faculties.

The Faculty also offers programs leading to a Bachelor of Social Work (B.S.W.), a Bachelor of Theology (B.Th.), and a Diploma in Environment from the McGill School of Environment.

### **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 please see

Administrative and Student Affairs Coordinator: Ms. Joanne Terrasi; 514-398-6868, [giovanna.terradi@mcgill.ca](mailto:giovanna.terradi@mcgill.ca)

### **3.10.4.2 About Anthropology**

The Honours program and Major Concentration in Anthropology emphasize the similarity and diver6 5768.6e Hon: progr 0 1 126.3742298226 5768.6e Hons1and F 0 .

## Associate Members

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

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

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



### 3.10.4.8 Bachelor of Arts (B.A.) - Honours Anthropology (60 credits)

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 Course (6 credits)

ANTH 490 (6) Honours Thesis

#### Complementary Courses (54 credits)

Honours students select their courses as specified below. Students may take a maximum of 9 credits at the 300 and 400 level offered by other departments if they are directly related to their focus of study within Anthropology and are approved by their departmental program adviser.

#### 200/300 Level

A maximum of 36 credits of 200- and 300-level courses (of which a maximum of 21 credits may be at the 200 level and a maximum of 6 credits may be Special Topic courses.)

#### 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  
ANTH 358 (3) The Process of Anthropological Research  
ANTH 359 (3) History of Archaeological Theory

#### 400/500 Level

A minimum of 9 credits of Anthropology (ANTH) courses at the 400- or 500-level, and a maximum of 3 credits can be a Special Topic course.

### 3.10.4.9 Bachelor of Arts (B.A.) - Joint Honours Component Anthropology (36 credits)

Students interested in Joint Honours should consult an adviser in the other department for specific course requirements. A form will be supplied by the Anthropology Department to keep track of courses required by both departments for the programs selected.

Students who wish to study at the Honours level in two disciplines can combine the Joint Honours Program component in Anthropology with one in any other Arts discipline.

The Joint Honours thesis topic should be arranged by consultation with an adviser in Anthropology and the other discipline, and supervisors should be appointed in each department who will work together to guide the student.

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 Course (3 credits)

The Joint Honours thesis should be determined in consultation with advisers from both Joint Honours components programs. Normally, the thesis is 6 credits of coursework with 3 credits applying to each Joint Honours component.

ANTH 491 (3) Joint Honours Thesis

#### Complementary Courses (33 credits)

#### 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
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

#### 400/500 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 400 or 500 level (maximum of one 3-credit Special Topic course at the 400 level).

#### 3.10.4.10 Anthropology (ANTH) Related Programs and Study Semesters

##### 3.10.4.10.1 Africa Field Study Semester

The Department of Geography, Faculty of Science, coordinates the 15-credit interdisciplinary Africa Field Study Semester; see *Study Abroad & Field Studies > Undergraduate > section 12.2.1.1: Africa Field Study Semester*.

#### 3.10.5 Art History and Communication Studies (ARTH & COMS)

##### 3.10.5.1 Location

Arts Building, Room 155  
853 Sherbrooke Street West  
Montreal QC H3A 0G5  
Telephone: 514-398-2850  
Website: [www.mcgill.ca/ahcs](http://www.mcgill.ca/ahcs)

##### 3.10.5.2 About Art History and Communication Studies

In the field of Art History, the Department offers comprehensive programs of courses and seminars on the history of the visual arts, material culture, and architecture from antiquity to the present, focusing primarily on Europe and North America. The works of art and architecture are discussed within their cultural, political, historical, religious, philosophical, and social context.

Major and minor concentrations, honours, joint honours component, and graduate programs are available in **Art History**. For the most up-to-date information on Department requirements and detailed course descriptions, please visit our Department's [website](#), or consult an appropriate undergraduate adviser through:

Student Affairs Office  
Arts Building, Room 155  
Telephone: 514-398-2850

The Department offers a minor concentration in the field of **Communication Studies**, as well as an M.A. and a Ph.D. program at the graduate level as described in [Arts Graduate](#) section.

##### 3.10.5.3 Orientation Session for New Students

All new students entering the Art History and Communication Studies undergraduate programs are required to attend an information session prior to registration. The orientation, or **Departmental Advising Fair**, will take place on the first business day follo

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### **Emeritus and Retired Professors**

David Crowley; B.A.(Johns Hop.), M.Sc.(Penn.), Ph.D.(McG.) (*Retired*)

John M. Fossey; B.A.(Birm.), D.U.(Lyon II), F.S.A., R.P.A. (*Emeritus*)

Marc Raboy; B.Sc., M.A., Ph.D.(McG.) (*Emeritus*)

Gertrude Robinson (*Emeritus*)

George Szanto; B.A.(Dart.), Ph.D.(Harv.) (*Emeritus*)

### **Professors**

Charmaine Nelson; B.F.A., M.A.(C'dia), Ph.D.(Manc.)

Christine Ross; M.A.(C'dia.), Ph.D.(Paris I)

Jonathan Sterne; B.A.(Minn.), M.A., Ph.D.(Ill.-Urbana-Champaign)

Will Straw; B.A.(Car.), M.A., Ph.D.(McG.)

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

### **Associate Professors**

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

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

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

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

Cecily Hilsdale; B.F



-A 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 Introduction to Medieval

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

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
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

### 3.10.5.8 Bachelor of Arts (B.A.) - Honours Art History (60 credits)

Students are encouraged to apply for this 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 3.30 for admission into the program and the awarding of Honours.

In addition to the completion of the Honours requirements, students must complete at least a minor concentration in an academic unit other than the one in which the Honours requirements are satisfied. (For students completing a second degree in the Faculty of Arts, this regulation is waived.)

#### Required Courses (9 credits)

ARTH 305	(3)	Methods in Art History
ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

#### Complementary Courses (51 credits)

51 credits of complementary courses chosen from 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 (excluding 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

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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 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 319	(3)	Introduction to Manga
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 & 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

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
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

### **3.10.5.9 Bachelor of Arts (B.A.) - Joint Honours Component Art 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. 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.

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 3.30 for admission into the program and the awarding of Honours.



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 319	(3)	Introduction to Manga
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 & 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

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
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

### 3.10.6 Cognitive Science

Students with an interest in cognition may want to consider the Minor in Cognitive Science. For more information, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.8: Cognitive Science](#).

### 3.10.7 Computer Science (COMP)

#### 3.10.7.1 Location

##### Main Office

McConnell Engineering Building, Room 318  
3480 University Street  
Montreal QC H3A 0E9  
Telephone: 514-398-7071

##### Undergraduate Student Affairs Office

McConnell Engineering Building, Room 320  
3480 University Street  
Montreal QC H3A 0E9  
Telephone: 514-398-7071, ext. 00739

Email: [ugrad-sec@cs.mcgill.ca](mailto:ugrad-sec@cs.mcgill.ca)

Website: [www.cs.mcgill.ca](http://www.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 Structures 2

### 3.10.7.5 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 Computer Science ue42.989 283.72MP 396.

**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 Structures 2

Group C:

(3)	Theory of Computation
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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 Courses (6 credits)**

At least 6 credits from:

ECSE 326	(3)	Software Requirements Engineering
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facilitating a vibrant community of collaborative learning. In addition to in-class learning, our Chinese majors in the intermediate level have the opportunity to travel fully funded to Shantou University in Guangdong China for a one month and up to one semester of intensive Chinese courses. 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. Guided by their advisors and the Director of Graduate Studies, Graduate students select from a variety 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.

## Associate Members

Lorenz Lüthi (*History*)

Junko Shimoyama (*Linguistics*)

Sarah Turner (*Geography*)

Juan Wang (*Political Science*)

### 3.10.8.4 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

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 Asian Studies (EAST)**

6 credits at the 300 level or above in East Asian Studies (EAST) courses selected from:

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: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese 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 & 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)	Topics in Gender and Sexuality in Chinese Cinema
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History

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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 & 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

### 3.10.8.5 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 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: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese 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 & 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)	Topics in Gender and Sexuality in Chinese Cinema
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction 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 & 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 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

### **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
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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 339	(3)	Gender & Sexuality in Buddhism
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: Maxims and Methods
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

**3.10.8.6 Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)**

This program may not be expanded to the Major Concentration East

## 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

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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: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese 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 & 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)	Topics in Gender and Sexuality in Chinese Cinema
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction 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 4641 0 0 221.949 237834 Tm(opics: China, Text, Ref, J, th, n, e, 221.949 233.96 Tm((3))Tj1 0 0 221.949 233.96 Tm(EAST 377)Tj1 0 0 121 00.52 61(Globaln C

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

### **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

**Political Science (POLI)**

Foreign Policy: Asiaoli 349674.881 Tm(ORGB 380)Tj/F0 8591.s4x.75lic



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 422	(3)	Third Level Chinese

## East Asian Studies (EAST)

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: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese 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 & 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)	Topics in Gender and Sexuality in Chinese Cinema
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History

Topics: Chinese L,510 1 22 0 1 226 o opics: 1 165.864 Tm((3))Tj1 0 0 1 72769 669.161 Tm(Current )Tj1 0 769 669.161

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

**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

**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

Seminar in Japanese History



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 & Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (1960-1911)
	(3)	Animation and New Media



## Professors

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

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

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

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

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

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



ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory

**Group B**

Economics courses with course numbers above ECON 208 (excluding ECON 295), at least 6 of which must be at the 300, 400 or 500 level.

Program Notes:

Only one of ECON 208 or ECON 230D1/D2 or ECON 250D1/D2 can be credited to the Economics Minor. Only one of ECON 209 or ECON 330D1/D2 or ECON 352D1/D2 can be credited to the Economics Minor. The combination of ECON 230D1/D2 and ECON 209 is allowed.

**Special Minor in Economics for Management Students**

Information on this Minor Concentration and its special restrictions is in the Desautels Faculty of Management section of the eCalendar.

<https://www.mcgill.ca/desautels/programs/bcom/academics/course-information/minors>. Students should consult with the advisers in both the Faculty of Management and the Department of Economics for advice on this minor concentration.

**3.10.9.5 Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)**

The Major Concentration in Economics is a planned sequence of courses designed to permit the student a degree of specialization in economics. It consists of 36 credits in courses approved by the Economics Department. Students wishing to pursue this concentration need to consult the department's rules and regulations at: [www.mcgill.ca/economics/undergraduates/majorminor](http://www.mcgill.ca/economics/undergraduates/majorminor).

All students who wish to begin (or continue) the Major Concentration Economics should see a majors adviser in the Department of Economics in each of their university years. Further information may be obtained from the Department's website, or from any majors adviser; consult the Departmental office for a list of advisers and their advising times.

Students who are registering for the first time with the Department should attend the orientation meeting in August (check the website for details) before seeing an adviser.

A student choosing the Major Concentration Economics must take 36 credits in Economics. The Economics courses will normally be taken at McGill and will be selected from the courses shown below. Major Concentration in Economics students entering University at the U1 year in September should directly proceed to ECON 230D1/ECON 230D2 without taking ECON 208 and ECON 209.

Note: Students who wish to switch from the Major Concentration to Honours Economics must complete all the requirements of the Honours program.

Mathematics: Mastery of high school mathematics is required for all economics courses.

Prerequisites: In general, 200-level courses have no prerequisites and 300-level and 400-level courses have ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2 (or ECON 208 and ECON 209, or MGCR 293 and ECON 295) as prerequisites. In addition, 400-level courses have Calculus 1 (or its equivalent) or a course in mathematical techniques for economic analysis (or its equivalent) as a prerequisite.

**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" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory

**Complementary Courses (18 credits)**

18 credits in Economics selected from other 200- (with numbers above 209), 300-, 400- and 500-level courses. At least 6 of these credits must be in 400- or 500-level courses. No more than 6 credits may be at the 200 level.

**3.10.9.6 Bachelor of Arts (B.A.) - Honours Economics (42 credits)**

The Honours Economics program (B.A. and B.Com.) consists of 30 specified credits of Honours courses and a further 12 credits of approved Economics courses.



### **3.10.9.7 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 "Overview of Programs Offered" and "Joint Honours Programs" on the Economics Department website.

Joint Honours students should consult an adviser in each of the relevant departments to discuss their course selection and their interdisciplinary research project (if applicable) in each year of their program.

For the Economics component of this program, Joint 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.

Continuation in the Economic component of this program from one year to the next requires a minimum grade of B- in ECON 250D1/D2, 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.



**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:

A	(3)	Financial Statement Analysis
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### **Economics - Required Courses (27 credits)**

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 469 in addition to ECON 468.

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

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

### **Finance - Required Courses (18 credits)**

FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
		Advanced Finance Seminar

### 3.10.9.10 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.

### 3.10.9.11 Economics (ECON) Related Programs

#### 3.10.9.11.1 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 \(For Non-Management Students\) \(18 credits\)](#)
- Marketing for Non-Management Students; see [Desautels Faculty of Management > Undergraduate > Overview of Proaduate](#)

**Required Course (3 credits)**

EDPE 300 (3) Educational Psychology

**Complementary Courses (15 credits)**

**Group A**

9 credits selected as follows:

3 credits, one of:

EDEC 260 (3) Philosophical Foundations  
 EDEC 261 (3) Philosophy of Catholic Education

3 credits, one of:

EDEC 233 (3) Indigenous Education  
 EDEC 248 (3) Equity and Education  
 EDEC 249 (3) Global Education and Social Justice

3 credits, one of:

EDEC 247 (3) Policy Issues in Quebec Education  
 EDEM 220 (3) Contemporary Issues in Education

**Group B**

6 credits to be chosen from the following list:

\* Note: Either EDES 335 or EDES 353 may be taken but not both.

EDEC 262 (3) Media, Technology and Education  
 EDES 335\* (3) Teaching Secondary Science 1  
 EDES 353\* (3) Teaching Secondary Mathematics 1  
 EDPE 304 (3) Measurement and Evaluation  
 EDPI 341 (3) Instruction in Inclusive Schools

**3.10.11 Educational Psychology**

**3.10.11.1 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](mailto:ecpinfo.education@mcgill.ca)  
 Website: [www.mcgill.ca/edu-ecp](http://www.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](mailto:ecpundergrad.education@mcgill.ca)

**3.10.11.2 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.** ev

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
	(3)	Gender Identity Development

### **Emeritus Professors**

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

### **Professors**

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

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

A. Hepburn; B.A., M.A.(UWO), Ph.D.(Princ.)

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

M.A. Kilgour; B.A.(Tor.), Ph.D.(Yale) (

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 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2

### 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

(3) Studies in the 18th Century



### **Drama and Theatre - Courses of Interest - Other Departments**

Permission to count extra-departmental credits must be obtained in advance of taking any course from outside the Department of English. Students are normally permitted to count 3 credits from other departments towards their Drama and Theatre Minor. Permission is obtained with the signature of a Department of English program adviser on the student's 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

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
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 398	(3)	Psychoanalytic Approaches to Cultural 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

Revision, May 2019. End of revision.

### 3.10.12.9 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
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

**Areas of English Literature**

6 credits, 3 credits each from two of the following areas: Backgrounds of English Literature, Old English, Medieval, Renaissance:

**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

**Old English**

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**

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 323	(3)	20th Century American Poetry
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: Literature and Democracy
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

### 3.10.12.10 Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)

The Drama and Theatre option tries to place its subject in as broad a social and philosophical context as possible. The Drama and Theatre program is not designed to provide professional theatre training. The aim is rather to encourage students to explore the subject as a liberal arts discipline.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at [E11 T323Chaucr progr1 0 0 1 165.864 599.811 T323ChaucE96Tm3Chaucr progr1 0 0 1 165.864 568.396Tm3Chauc](#)



Theatre History: Medieval and Early Modern

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 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

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 toward the Major Concentration 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 398	(3)	Psychoanalytic Approaches to Cultural Studies
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

### Other Departments

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.

### 3.10.12.12 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 Major Author, and 3 must be devoted to a course on Canadian Literature, 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/english>). A maximum of 9 of the 36 credits are allowed at the 200 level, none in the final year of the program.

Note on Topics Courses: The Department of English offers courses which





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

### Literature Stream Offerings

6 credits from among English Department Literature stream offerings.

### Department Offerings

9 credits from among other Department offerings (ENGL courses).

### 3.10.12.13 Bachelor of Arts (B.A.) - Honours English - Drama and Theatre (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 (12 credits)

Note: ENGL 230 and ENGL 355 should be taken in the first two terms of the program.

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 355	(3)	The Poetics of Performance
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

### 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.

### 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

### Shakespeare or Another Major Figure in Drama and Theatre Courses

3 credits from a list of courses on Shakespeare or, when available and with an instructor's signed permission on the student's Audit Sheet, another major figure in Drama and Theatre:

Shak

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

MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

### **3.10.12.14 Bachelor of Arts (B.A.) - Honours English - Cultural Studies (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 (15 credits)**

ENGL 275, ENGL 277, and ENGL 359 should be taken in the first two terms in the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

#### **Complementary Courses (39 credits)**

39 credits selected as described below. At least 6 of the 39 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 39 credits are allowed at the 200 level, none in the final year of the program.

Note on T

ENGL 393	(3)	Canadian Cinema
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies

### **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
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

### **Historical Dimension**

6 credits from a list of courses in Cultural Studies with an h



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 398	(3)	Psychoanalytic Approaches to Cultural 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

### **3.10.12.15 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 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 aTj odo combinetconsuird-Ar f

### Advanced Study

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

OR

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the eCalendar. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

### 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

### Theory Courses

3 credits from a list of theory 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

### 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:

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 314	(3)	20th Century Drama
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries



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 siremeydv

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  
 ENGL 334 (3) Victorian Poetry

ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 405	(3)	Studies in 19th Century Literature 2
ENGL 423	(3)	Studies in 19th Century Literature
ENGL 504	(3)	19th Century

**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 follo

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.

### 3.10.12.17 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 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.)

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the eCalendar. For example, Joint Honours with



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)	
ENGL 497	(3)	Seminar in Cultural Studies

### Departmental Offerings

9 additional credits of English (ENGL) courses at the 400 level or above.

### 3.10.12.18 Admission Requirements – Joint Honours Program – English Component

Applications will be considered by the Department's Honours Committee on the basis of the applicant's program GPA, at a minimum of 3.50. An application form is available in the Department's General Office (Arts 155), and the submission requirements are described on the form. The application will take some time to prepare, and allowance for processing (approximately 4 weeks) must be made in order to meet the application deadline. **Applications will not be considered.**

Acceptance into Joint Honours English may be conditional on particular revisions to the *Program Course Proposal* to be submitted with the application form. This proposal goes on file in the General Office with the other submissions. Only course choices that are appropriate, given the nature of the Joint Honours program proposed, including the Honours Essay if applicable, will be approved. In order to graduate with Joint Honours, all subsequent course substitutions in the initially approved Joint Honours English program must be endorsed by the Joint Honours Adviser when they are made (i.e., at the start of each term) and entered on the Program Course Proposal with the Adviser's initialled approval.

For more information and to download the application form, please refer to our [website](#).

### 3.10.13 English Language and Academic Writing Courses (CESL and CEAP)

As of Summer 2011, the English as a Second Language courses (formerly ESLN prefixes) and English for Academic Purposes courses (formerly EAPR prefixes) are being offered through the [McGill Writing Centre](#) and now have new prefixes: CESL and CEAP, respectively.

For a list of MWC courses that can be taken for credit in the Faculty of Arts, consult [School of Continuing Studies > Areas of Study > McGill Writing Centre](#) and the [Arts OASIS website](#) under the "Cont Ed" tab.

### 3.10.14 Environment

Arts students who are interested in studying the environment should refer to [McGill School of Environment > Undergraduate](#).

- Minor: [section 7.7.1: Minor in Environment](#)
- Faculty Program: [section 7.7.2: B.A. Faculty Program in Environment](#)
- Honours: [section 7.7.6: Honours Program in Environment](#)
- Joint Honours: [section 7.7.7: Joint Honours Component Environment](#)
- Diploma: [section 7.7.8: Diploma in Environment](#)

### 3.10.15 French Language Courses (FREN)

#### 3.10.15.1 Learning Objectives

French Language Centre  
 Arts Building, Room 265  
 853 Sherbrooke Street West  
 Montreal QC H3A 0G5  
 Telephone: 514-398-8111  
 Email: [flc@mcgill.ca](mailto:flc@mcgill.ca)  
 Website: [www.mcgill.ca/flc](http://www.mcgill.ca/flc)

#### 3.10.15.2 Minor in French as a Second Language

Courses in French as a Second Language are available to students in any program who need to develop their oral and written skills in the French language either for use in their professional careers or in preparation for more advanced studies in French linguistic, literature, civilization, translation or Canadian studies.

Arts Freshman students enrolled in the "En français" option may select up to a maximum of 18 credits from FRSL courses.

### 3.10.15.3 Admission and Registration

**A Placement Test** is required before admission to any FRSL course, including Beginners' French. *All students should bring a photocopy of their transcript from high school or CEGEP. Departmental permission will be given after the student's level has been determined by a placement test. Where students' levels in French make admission to this Department inappropriate, they will be directed to the Département de littératures et de langue française, de traduction et création.*

Student must be registered to attend FRSL courses; no auditors are accepted.

Placement tests are held at the end of August **until places are filled**. F8.10.1sioidelectleattendlosphotone 0 0 1 342.38165.8384543 (8.10.1s ar)TFLC) 0 0 1 2

1. L'admission aux cours pratiques de langue (Composition 1 et 2, ainsi que Traduction) est subordonnée à la réussite lai Tf()01

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.

Cette concentration mineure ne peut pas être convertie en concentration majeure. Pour être admis(e), l'étudiant(e) doit passer un test de classement au Centre d'enseignement du français.

### **COURS COMPLÉMENTAIRES (18 crédits)**

De 3 à 15 crédits de cours FRSL (Centre d'enseignement du français) répartis de la façon suivante+ :

De 0 à 6 crédits choisis parmi les cours ci-dessous :

FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
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
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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

++ 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.

### **3.10.16.6 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et littérature françaises - Études et pratiques littéraires (18 crédits)**

Ce programme offre une introduction aux études littéraires de langue française et aux différentes pratiques littéraires que sont la création, la traduction et l'édition. Il vise également les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure./F5 8.1 Tf(s56ue. majeure./F5 8.1re et de le con)T Tf Tm(v4'41 \*5)Tj-0.03 Tv

FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1

\*1 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

## II) BLOC: PRATIQUES

Liste des cours

### (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 *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)
	(3)	Semi-Specialized Translation (French to English)

- \*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.

### **3.10.16.7 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 programme. L'admission nécessite une bonne connaissance du français et de l'anglais lus et écrits, ainsi 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 imposer de suivre le cours FREN 239 (« Stylistique comparée ») ou son équivalent, le CCTR 219 (« Fundamentals of Comparative Stylistics & Writing (French) »), à la session d'automne de U1.

#### **COURS OBLIGATOIRES (6 crédits)**

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)
		Semi-Specialized Translation (French to English)





FREN 464D2

(3)

Mémoire de spécialisation  
Séminaire avancé de 1

au moins 3 crédits choisis parmi tous les cours de la série « Théorie » ;

au moins 6 crédits choisis parmi les cours suivants :

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)	<del>Semi-Specialized Translation (English to French)</del>
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 346 *4	(3)	Traduction avancée

\*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.

au moins 6 crédits choisis parmi les cours suivants :

CCTR 326 *5	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *6	(3)	Traduction Littéraire-Français
CCTR 507 *7	(3)	Editing and Revising (French)
FREN 320	(3)	Traduire, écrire, expérimenter.
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.

#### **(a) Série « Œuvres et courants »**

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800

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 433	(3)	Sémantique et lexicologie
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 »

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 *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 *7	(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 (CCTR 320)
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire
FREN 341	(3)	Traduction et recherche 1 Traduction av

\*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 431 ou le CCTR 507.

\*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.

## **II) BLOC : COURS HORS DÉPARTEMENT**

Seuls les cours offerts par les unités d'enseignement ou dans le cadre des programmes ci-dessous sont autorisés et reconnus par le DLLF comme cours complémentaires. Pour tous les cours qui portent un sigle n'apparaissant pas dans la liste, on consultera la direction des études de premier cycle du DLLF.

African Studies (AFRI)

Anthropology (ANTH)

Art History and Communication Studies (ARTH) (COMS)

Classical Studies (CLAS)

East Asian Studies (EAST)

English (ENGL)

German Studies (GERM)

Hispanic Studies (HISP)

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)

Women's Studies (WMST)

World Cinemas (FILM)

### **3.10.16.9 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 fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. L'étude de la littérature s'y fait à travers les différentes pratiques que sont la création, la traduction et l'édition. Tou(te)s les étudiant(e)s sont aTm les

## COURS COMPLÉMENTAIRES (24 crédits)

24 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

### ORIENTATION A - « Études littéraires »

de 3 à 9 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre au moins l'un des deux cours suivants :

FREN 245	(3)	Grammaire normative
FREN 356	(3)	Grammaire du texte littéraire.

de 9 à 15 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

de 3 à 9 crédits choisis parmi les cours de la série « Théorie » ;

de 3 à 9 crédits choisis parmi les cours du bloc « Pratiques ».

### ORIENTATION B - « Pratiques littéraires »

de 3 à 6 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre l'un des cours suivants :

FREN 245	(3)	Grammaire normative
FREN 356	(3)	Grammaire du texte littéraire.

au moins 6 crédits choisis parmi les cours du bloc « Études » ;

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 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 310	(3)	Cinéma français 1
FREN 311	(3)	Cinéma français 2
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 433	(3)	Sémantique et lexicologie
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 »**

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)
criture.	(3)	Semi-Specialized Translation (French to English)

### **3.10.16.10 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

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 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 Traduire, écrire, expérimenter
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au moins 3 crédits choisis parmi les cours de la série « Théorie » ;

au moins 3 crédits choisis parmi les cours du bloc « Pratiques ».

### **ORIENTATION B - Création littéraire**

de 6 à 9 crédits choisis parmi les cours de la série « Création » ;

au moins 3 crédits choisis parmi les cours de la série « Langue française » ;

au moins 3 crédits choisis parmi les cours de la série « Théorie » ;

Au moins 3 crédits choisis parmi les séries « Édition » et « Traduction » du bloc « Pratiques ».

### **ORIENTATION C - Traduction littéraire**

de 3 à 6 crédits choisis parmi les cours suivants :

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) peut suivre le FREN 244 ou le CCTR 225.

\*2 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

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 433	(3)	Sémantique et lexicologie
FREN 434	(3)	Sociolinguistique du français

FREN 491

(3)

Langage et littérature 2

\*6 L'é

FREN 433

(3)

Sémantique et lexicologie 270.52 709.84 Tm(FRElinguistiqu930xxicolo 1 221.949 70linguistiqu0 1 22923 725.06 T3)TJ

FREN 43555vg9r930xxicolo (B)221.949 709.3 Sociolinguistique du français

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 433 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.

### 3.10.17 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](mailto:info.igsf@mcgill.ca)

Website: [www.mcgill.ca/igsf/programs/gsf](http://www.mcgill.ca/igsf/programs/gsf)

Adviser: Andrew Folco; [andrew.folco@mcgill.ca](mailto:andrew.folco@mcgill.ca)

#### 3.10.17.2 About Gender, Sexuality, Feminist, and Social Justice Studies

The Institute for Gender, Sexuality, and Feminist Studies (IGSF) has consolidated the previous Women's Studies and Sexual Diversity Studies programs into one, newly titled program in Gender, Sexuality, Feminist, and Social Justice Studies (GSFS).

The Gender, Sexuality, Feminist, and Social Justice Studies program recognizes 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 the [website](#).

#### 3.10.17.3 Gender, Sexuality, and Feminist Studies Faculty

##### Faculty Lecturer

Alexandra Ketchum; Ph.D.(McGill)



**Assistant Professor**

Roberto Benedicto; B.A.(Ateneo de Manila), M.A.(York), Ph.D.(Melb.) (*joint appt. with Art History and Communication Studies*)

Maria Hwang; (*Joint apt. with East Asian Studies*)

**3.10.17.3.1 Gender, Sexuality, Feminist, and Social Justice Studies Advisory Committee (GSFSAC)**

**Chair**

A. Thain;

**Administrative and Student Affairs Coordinator (Student Adviser)**

A. Folco; B.A.u2airsmncG.r)

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 & 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 le

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 323*	(3)	20th Century American Poetry
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 & 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
	(3)	Gender and Textualities

RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & 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 (\*) count toward Gender, Sexuality, Feminist, and Social Justice Studies when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

**3.10.17.5 Bachelor of Arts (B.A.) - Major Concentration Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)**

The Major Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary

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 & Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
		Feminisms and the L1es

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 323*	(3)	20th Century American Poetry
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries

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SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development

GSFS 305 (3) Critical Race and Social Justice Theories  
GSFS 306 (3) Queer Theory  
GSFS 307 (3) Indigenous Feminisms  
GSFS 308 (3) Sex & Gender Minority Cultures  
GSFS 401 (3) Special Topics 1  
GSFS 402 (3) Special Topics 2  
GSFS 403 (3) Feminisms and the Law

949 6150((3))Tj1 (Pol901 Tm((GSF 2565d78.4B52fus((6174))Tj1 (PoActims and the La)5.32)Pov.24s of IdentityPo4 615.52 Tm((3))Tj1

EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 323*	(3)	20th Century American Poetry
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

Se

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 422*	(3)	Topics: American Family History
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 448	(3)	Women, Gender and Sexuality in the Middle East
<del>HIST</del> 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

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.

**3.10.17.7 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 e

GSFS 308

(3)

Sex & Gender Minority Cultures

(3)

Special Topics 1







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 (or leave a message: 514-398-4111)  
 Email: [undergrad.geog@mcgill.ca](mailto:undergrad.geog@mcgill.ca)  
 Website: [www.mcgill.ca/geography](http://www.mcgill.ca/geography)

#### **3.10.18.2 About Geography**

The Geography Department offers programs in both **Arts** and **Science**. Refer to

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface

9 credits from Geography (GEOG) courses at the 300 or 400 level.

**3.10.18.6 Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Studies) (18 credits)**

\*\*\* NEW PROGRAM \*\*\*

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

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

**3.10.18.7 Bachelor of Arts (B.A.) - Minor Concentration GIS & Remote Sensing (18 credits)**

**Required Courses (6 credits)**

COMP 202 (3) Foundations of Programming

GEOG 201 (3) Introductory Geo-Information Science

**Complementary Courses (12 credits)**

3 credits selected from:

GEOG 306\* (3) Raster Geo-Information Science

GEOG 307\* (3) Socioeconomic Applications of GIS

6 credits selected from the following:

GEOG 308\* (3) Principles of Remote Sensing

GEOG 384 (3) Principles of Geospatial Web

GEOG 506\* (3) Advanced Geographic Information Science

GEOG 535 (3) Remote Sensing and Interpretation

3 credits from the following:

ATOC 309 (3) Weather Radars and Satellites

COMP 557 (3) Fundamentals of Computer Graphics

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GEOG 306*	(3)	Raster Geo-Information Science
GEOG 307*	(3)	Socioeconomic Applications of GIS
GEOG 308*	(3)	Principles of Remote Sensing
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.

### **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 div

**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.

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**

3 credits from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research

**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)**

\*\* NEW PROGRAM \*\*

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)**

**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**

3-6 credits selected from:

GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 494	(3)	Urban Field Studies

18-21 credits from the course lists below:

**Geography**

\* Students can choose one only from GEOG 210, GEOG 216 or GEOG 221.

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 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
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 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power
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
	(3)	Asian Cities in the 21st Century

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 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

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## 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 Systems (60 credits)

The B.A. Honours Urban Systems 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)

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 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(3r(3r

12 credits from the following Geography (GEOG) courses:

\* 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 307	(3)	Socioeconomic Applications of GIS
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 525	(3)	Asian Cities in the 21st Century

18 credits from the following courses:

### **Architecture**

Although Architecture courses have prerequisites, they are waived for Urban Systems students, but the course may not be taken before the year indicated:

U2 - ARCH 378

U3 - ARCH 515, ARCH 517, ARCH 527, ARCH 528, ARCH 529, ARCH 562, ARCH 564, ARCH 566

ARCH 378	(3)	Site Usage
ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 527	(3)	Civic Design
ARCH 528	(3)	History of Housing
ARCH 529	(3)	Housing Theory
ARCH 561	(0)	
ARCH 562	(3)	Innovative Homes and Communities
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar

### **Art History & Communication Studies**

COMS 425	(3)	Urban Culture & Everyday Life
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### **Civil Engineering**

CIVE 540	(3)	Urban Transportation Planning
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### **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

### History

HIST 353 (3) History of Montreal  
HIST 397 (3) Canada: Ethnicity, Migration

### Management

FINE 445 (3) Real Estate Finance

### Political Science

POLI 318 (3) Comparative Local Government  
POLI 321 (3) Issues: Canadian Public Policy  
POLI 337 (3) Canadian Public Administration

### Sociology

SOCI 230 (3) Sociology of Ethnic Relations  
SOCI 333 (3) Social Stratification  
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

### Remaining Courses

6 credits must be taken at or above the 300 level.

Courses may be selected from the lists above or from outside the program in consultation with the student's adviser.

### 3.10.18.13 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".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

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.

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 follows:

**Introducor**

### **310.18.143 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 [www.mcgill.ca/arctic](http://www.mcgill.ca/arctic).

### **310.18.144 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](mailto:william.minarik@mcgill.ca)

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

**Sustainability, Science and Society – Bachelor of Arts and Science (B.A. & Sc.)**



**IMPORTANT NOTE:** Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs, but may be considered as having met prerequisites for an upper-level course—please discuss with the professor of an upper-level course requiring the prerequisite, or with your academic program adviser.

### 3.10.19.23 About Classics

Classical Studies provides an in-depth study of the languages, literature, history, and culture of ancient Greece and Rome. Students may complete an undergraduate program in Classics by selecting from Classics courses (CLAS), History courses (HIST) that focus on ancient Greece or Rome, as well as courses in several related disciplines in the Faculty of Arts such as Philosophy, English, and Art History. Classical Studies is inherently interdisciplinary.

A complete list of Classics and related courses is found on the [Department's website](#).

The Department offers four kinds of **undergraduate degrees**:

- Minor Concentration
- Major Concentration
- Honours
- Joint Honours Component (combined with another component from a second discipline)

The **Minor Concentration** and **Major Concentration** provide a useful complement for students in the arts and sciences. The **Joint Honours** and **Honours** degrees are designed to train students who wish to make Classics a basis for academic careers. They also offer students the prospect of favourable consideration for graduate and other professional schools.

### 3.10.19.24 About South Asian Studies

The **Minor Concentration in South Asian Studies** – collaboratively offered by the Departments of Anthropology, English, History and Classical Studies, Political Science, and Sociology, as well as the Institute of Islamic Studies and the School of Religious studies – offers breadth and depth on the history also of

## Professors

Gwyn Campbell; B.Soc.Sc., M.Soc.Sc.(Birm.), Ph.D.(Wales) (*Canada Research Chair*)

Allan Greer; B.A.(Br. Col.), M.A.(Car.), Ph.D.(York) (*Canada Research Chair*)

Elsbeth Heaman; B.A., M.A.(McG.), Ph.D.(Tor.)

Peter Hoffmann; Ph.D.(Munich), F.R.S.C. (*William Kingsford Pr*)

### Assistant Professors

Laura Madokoro; B.A.(Wat.), M.A.(Tor.), Ph.D.(Br. Col.)

Jeremy Tai; B.A.(NYU), M.A., Ph.D.(Calif.-Santa Cruz)

Darian Totten; B.A.(Chic.), M.A., Ph.D.(Stan.)

Heidi Wendt; B.A., M.A., Ph.D.(Brown) (*joint appt. with School of Religious Studies*)

### Faculty Lecturers

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 follo



-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
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

### 3.10.19.6 Bachelor of Arts (B.A.) - Honours History (54 credits)

**Revision, July 2019. Start of revision.**

The Honours History program provides in-depth training, with emphasis on historical methods and research, while allowing students flexibility in choosing courses that match their academic needs and interests. It is designed especially for students who anticipate pursuing graduate studies in history or related disciplines.

Students wishing to complete the Honours History program should consult a Program Adviser at the beginning of their first year to map out a course of study. They should fill out a departmental program advising/audit form. For more information, 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.

#### Required Course (3 credits)

HIST 399	(3)	History and Historiography
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#### Complementary Courses (51 credits)

51 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:

- Minimum 6 credits of honours seminars (500-level D1/D2 courses)
- Minimum 6 additional credits of 400-level or higher HIST courses. A second honours seminar may be used to fulfill this requirement.
- Maximum 18 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
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 275ST 221Ancient Roman	(3)	Ancient Roman History

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.

**Revision, July 2019. End of revision.**

### **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
	(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
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

**Bachelor of Ar**

CLAS 201

(3)

Greece and Rome

33 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced

CLAS 302	(3)	Roman Literature and Society
CLAS 310	(3)	Intermediate Latin 1
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

**Complementary Courses (30 credits)**

30 credits 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

Minimum 3 credits advanced classical literature courses:

CLAS 400	(3)	Ancient Drama and Theatre
CLAS 401	(3)	Ancient Comedy
CLAS 402	(3)	Hellenistic Literature and Society
CLAS 403	(3)	The Greek and Roman Novel
CLAS 405	(3)	The Epic Tradition
CLAS 406	(3)	Greek and Roman Historiography

Minimum 3 credits courses in ancient history or classical civilization:

CLAS 303	(3)	Ancient Greek Religion
CLAS 304	(3)	Ancient Greek Democracy
CLAS 305	(3)	Roman Religion
CLAS 306	(3)	Classics in Modern Media
CLAS 308	(3)	Gender in the Ancient World
CLAS 404	(3)	Classical Tradition
HIST 205	(3)	Ancient Mediterranean History
HIST 368	(3)	Greek History: Classical Period
HIST 369	(3)	Greek History: Early Greece
HIST 375	(3)	Rome: Republic to Empire
HIST 376	(3)	Fall of the Roman Empire
HIST 391	(3)	Rise of Rome
HIST 400	(3)	Ancient Greece, Rome and China
HIST 407	(3)	Topics in Ancient History
HIST 450	(3)	Ancient History Methods
HIST 469	(3)	Alexander and Hellenistic World





### **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 <del>253.0647</del> Literary Study
HIST 209	(3)	Introduction to South Asian History
	(3)	Islamic Mysticism: Sufism

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 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**

ISLA 551D1 (3) Introductory Urdu-Hindi

ISLA 551D2 (3) Introductory Urdu-Hindi

ISLA 552D1 (3) Intermediate Urdu-Hindi

ISLA 552D2 (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 Univ

### 3.10.20.3 Information Studies Faculty

#### Director

Kimiz Dalkir

#### Professors

Colleen Cook; B.A., M.L.S.(Texas-Austin), M.A., Ph.D.(Texas A & M) (*Trenholme Dean of Libraries, McGill University*)

#### Associate Professors

Joan Bartlett; B.Sc., M.L.S., Ph.D.(Tor.)

France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Montr.), Ph.D.(Tor.)

Kimiz Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)

Benjamin Fung; B.Sc., M.Sc., Ph.D.(S. Fraser)

Catherine Guastavino; B.Sc.(McG.), M.Sc.(Aix-Marseille), Ph.D.(Paris VI)

Karyn Moffatt; B.A.Sc., M.Sc., Ph.D.(Br.Col.)

Eun Park; B.A.(Pusan), M.L.I.S.(Ill. -Urbana-Champaign), M.B.A.(Pitt.), Ph.D.(Calif.-LA)

#### Assistant Professors

M. Max Evans; B.S.(N. Ill.), M.I.St., Ph.D.(Tor.)

Ilja Frissen; M.Sc.(Maastricht), Ph.D.(Tilburg)

Charles-Antoine Julien; B.Eng., M.Sc.(Montr.), Ph.D.(McG.)

#### Associate Members

Gordon Burr; B.A., M.L.I.S.(McG.) (*Senior Archivist, Records Management, McGill University Archives*)

Pierre Pluye; M.D.(Toulouse), M.Sc., Ph.D.(Montr.) (*Family Medicine, McGill University*)

Richard Virr; B.A.(Tulane), M.A.(Qu.), Ph.D.(McG.) (*Curator of Manuscripts, Rare Books and Special Collections Division, McGill Libraries*)

#### Affiliate Members

Charles Cole; B.A., M.L.I.S.(McG.), Ph.D.(Sheff.)

Farkhund Iqbal; B.Sc., M.Sc.(Peshawar), M.Ap.Comp.Sc., Ph.D.(C'dia)

#### Sessional Lecturers

Maxime Beaulieu; B.A., M.B.S.I.(Montr.), Ph.D.(UQAM)

Svetlana Kochkina; B.A., M.A.(SPbU), M.L.I.S.(McG.)

Lidia Kruk; B.A.(C'dia), M.L.I.S.(McG.)

Isabelle Lamoureux; M.L.I.S.(McG.)

Geoffrey Little; B.A., M.L.I.S.(Tor.)

Daniela Oliveira; B.(Librarianship)(São Paulo), M.L.I.S.(McG.)

Anton Stiglic; B.Sc., M.Sc.(Montr.), M.B.A.(Sher.)

### Institute for the Study of Canada

Website: [www.mcgill.ca/misc](http://www.mcgill.ca/misc)

### **3.10.21.2 About the McGill Institute for the Study of Canada**

Established in 1994 thanks to an innovative agreement between the Bronfman family and McGill University, the McGill Institute for the Study of Canada (MISC) runs an academic program at McGill University, supports an active research environment, and organizes a variety of large-scale, public events on matters of interest to Canadians, including MISC's Annual Conferences, which attract a great deal of attention from policy-makers, media, and the general public. While the Institute itself is non-partisan, MISC is no stranger to debate and controversy.

Our programs provide interdisciplinary courses on Canada and integrate the study of Canada in different departments throughout the Faculty of Arts at McGill. We e

6 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

### Canadian Studies (CANS)

6 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

### Canadian Studies (Other Departments)

3 credits chosen from the complementary course list at the 300 level or higher. The courses chosen must have relevance to the program.

#### Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

#### Architecture

ARCH 535*	(3)	History of Architecture in Canada
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\* Limited enrolment: 2-3 spots for CANS students

#### Art History

ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04

#### Biology

BIOL 240	(3)	Monteregian Flora
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#### Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy
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#### Economics

ECON 219	(3)	Current Economic Problems: Topics
ECON 223	(3)	Political Economy of Trade Policy
ECON 303	(3)	Canadian Economic Policy





FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies Geography of Northern Dev



**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

CMPL 500D1	(1.5)	Aboriginal Peoples and the Law
CMPL 500D2	(1.5)	Aboriginal Peoples and the Law

### **Political Science**

POLI 372	(3)	Indigenous Peoples and the Canadian State
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## **3.10.22 Interdisciplinary Studies**

### **3.10.22.1 Location**

Interdisciplinary Studies  
Dawson Hall, Room 107A  
853 Sherbrooke Street West  
Montreal QC H3A 0G5  
Telephone: 514-398-4400, ext. 09557  
Website:

### **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)**



**Program Committee**

J. Engle-W



**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 Gov
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- Literature and the arts (including theatre and architecture)
- History, culture, and society
- Philosophy and religion

Students will be expected to satisfy distribution requirements across geographical regions of the world and historical periods.

Students in the program will also be required to develop a working knowledge of, and take courses in, a language other than English. Students who are native speakers of a language other than English will be strongly encouraged to develop a working knowledge of, and take courses in, a third language.

The Liberal Arts program is designed to pro

### **Complementary Courses (30 credits)**

Students must complete 30 credits in one of the three specialized streams set out below.

The distribution requirements for all streams are the following:

- (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.

The additional courses may be substituted with the approval of the Program Director.

Students must choose 30 credits as follows:

6 credits from the courses in List A

24 credits from the courses in List B

### **List A (6 credits)**

Introduction to Medieval Art and e3cRt: courses in L9Tj1cj1 0 0 1 330.ses in Lie G(3AcaUL9Tj1cji 0 1 0.2m(e3cRtnd (

ISLA 210	(3)	Muslim Societies
ITAL 230	(3)	Understanding Italy
ITAL 295	(3)	Italian Cultural Studies
LLCU 220	(3)	Introduction to Literary Analysis

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HIST 201	(3)	Modern African History
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 205	(3)	SurvModern Ancient Mediterranean History
HIST 205Modern	(3)	J5678.4T 2s14221.949 662.wishrranean : 400 B.C.E. Cana000History

CLAS 406	(3)	Greek and Roman Historiography
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 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
		German

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 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 334	(3)	Christian Thought and Culture
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 356	(3)	Gender & 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 30 credits as follows:

6 credits from the courses in List A

24 credits from the courses in List B

#### **List A (6 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)	Christian Thought and Culture
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 373	(3)	Christian Ethics of Love
RELG 380	(3)	Religion, Philosophy, Modernity

#### **List B (24 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 9 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

GERM 367	(3)	Topics in German Thought
HIST 320	(3)	Themes in Intellectual History
HIST 321	()	
HIST 350	(3)	Science and the Enlightenment
HIST 440	(3)	Fiction and History
ITAL 355	(3)	Dante and the Middle Ages
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 465	(3)	Religious Identities in Italy
LIBA 395	(3)	Individual Reading Course
LLCU 301	(3)	Topics in Culture and Thought

\* ENVR 203 is a prerequisite for ENVR 400.

**Bachelor of Arts (B.A.) - Honours Liberal Ar**

(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.

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)

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
CLAS 203	(3)	Greek Mythology
CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society
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 215	(3)	Introduction to East Asian Art
ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 230	(3)	Introduction to Theatre Studies
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800

**List B (42 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,

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 & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 355	(3)	Religion and the Arts 2
RELG 455	(3)	Religion and the Performing Arts in South India

### Stream 2: History, Culture, and Society

This stream is designed for students whose primary interests lie in the study of history, culture, and society 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)

CATH 200	(3)	Introduction to Catholicism
COMS 200	(3)	History of Communication
COMS 210	(3)	Introduction to Communication Studies
COMS 230	(3)	Communication and Democracy
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 215	(3)	Introduction to East Asian Art
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 205	(3)	Ancient Mediterranean History
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
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 (42 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 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
ANTH 341	(3)	Women in Cross-cultural Perspective
ANTH 355	(3)	Theories of Culture and Society
ANTH 422	(3)	Contemporary Latin American Culture and Society
ARTH 310	(3)	Postcolonialism
CATH 315	(3)	Catholicism and Ethics
CATH 340	(3)	Catholicism and Public Policy
CLAS 203	(3)	Greek Mythology
CLAS 308	(3)	Gender in the Ancient World
CLAS 404	(3)	Classical Tradition
CLAS 406	(3)	Greek and Roman Historiography
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 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 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
IT	(3)	Italian Cultural Studies

JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 334	(3)	Christian Thought and Culture
RELG 338	(3)	Women and the Christian Tradition
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 356	(3)	Gender & 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
	(3)	Muslim Societies



JWST 211

(3)

Jewish Studies 1: Biblical Period

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\* ENVR 203 is a prerequisite for ENVR 400.

### **3.10.22.6 Medieval Studies**

#### **3.10.22.6.1 About Medieval Studies Program**

The minor concentration in Medieval Studies facilitates undergraduate training in the interrelated branches of the discipline (e.g., history, literature, art history, languages, religion, philosophy), providing them with:

- experience working in a field that is inherently interdisciplinary
- a valuable credential should they choose to pursue graduate study in the field (in any area).

Further information for new and returning students is available at [www.mcgill.ca/medieval](http://www.mcgill.ca/medieval) and from the Program Director:

Prof. Faith Wallis; 514-398-4400 Ext. 094203, [faith.wallis@mcgill.ca](mailto:faith.wallis@mcgill.ca)

#### **3.10.22.6.2 Medieval Studies Faculty**

##### **Program Committee Chair**

M. Van Dussen; B.A.(Ohio Wesl.), M.A., Ph.D.(Ohio St.) (*English*)

##### **Program Committee**

D. Bray; B.A.(McG.), Ph.D.(Edin.) (*English*)

T.C. Bruce; B.A.(Port St.), M.A.(Poitiers), Ph.D.(Toulouse/W. Mich.) (*History and Classical Studies*)

C. Hilsdale; B.F.A.(C'odia), M.A., Ph.D.(Chic.) (*Art History and Communication Studies*)

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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 & 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 litt **

### **Philosoph**

PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(3)	Late Medieval and Renaissance Philosophy

### Religious Studies

RELG 322	(3)	The Church in History 1
RELG 532	(3)	History of Christian Thought 1

### 3.10.22.7 Quebec Studies/Études sur le Québec (QCST)

#### 3.10.22.7.1 Généralités : Études sur le Québec

Le Programme d'études sur le Québec veut favoriser la recherche et la formation multidisciplinaires en études québécoises.

Avec l'appui des départements, la concentration Mineure en Études sur le Québec et apprentissage par engagement est constituée d'une suite agencée de cours ayant pour but de fournir un enseignement interdisciplinaire aussi complet que possible sur la société québécoise à l'intérieur d'un cadre canadien et international.

Sauf les cours Introduction to the Study of Quebec (QCST 200), Quebec Culture and Society (QCST 300), Histoire et culture de Montréal et du Québec en français (QCST 336), et le séminaire Contemporary Issues in Quebec (QCST 440), les cours compris dans la concentration Mineure sont sous la responsabilité des divers départements. Pour connaître la description de ces cours et, le cas échéant, les conditions d'admission, l'étudiant(e) est donc invité(e) à se reporter aux autres sections de cette publication et, au besoin, à consulter les départements concernés, d'autant plus que tous les cours ne se donnent pas nécessairement à chaque année. Veuillez noter que les conseillers pédagogiques ou les directeurs de programmes peuvent suggérer l'inscription à un cours sans toutefois imposer ce choix. La décision finale revient à l'étudiant(e) en ce qui concerne l'inscription à un cours en autant que l'étudiant(e) répond aux conditions d'admission pour ce cours.

Le titre de chaque cours indique s'il est donné en français ou en anglais, mais les travaux et examens peuvent toujours être rédigés dans l'une ou l'autre de ces deux langues (sauf au Département des littératures de langue française, de traduction et de création, où le français est de rigueur).

Pour de plus amples renseignements, veuillez voir [www.mcgill.ca/qcst](http://www.mcgill.ca/qcst)

étudiants ont ainsi la possibilité, grâce à un stage, de mettre en pratique le contenu d'enseignement des cours au sein d'un organisme communautaire montréalais. Enjeux liés à l'équité, à la diversité et à l'inclusion en contexte montréalais.

The goal of the Minor Concentration Quebec Studies and Community-Engaged Learning is to give students an interdisciplinary overview of Quebec historical and contemporary realities that is complementary to their degree by taking advantage of a community engagement learning approach within the Montreal community. With the collaboration of the Social Equity and Diversity Education (SEDE) Office, students have the possibility to link the academic course content with a hands-on experience within a Montreal community organization. Equity, diversity and inclusion issues within the Montreal context.

### **Required Courses / Cours Obligatoires (9 credits)**

De façon usuelle, les cours obligatoires (9 crédits) sont complétés selon la séquence suivante : QCST 200 (3 crédits) en U0 ou U1, QCST 300 (3 crédits) en U1 et QCST 440 (3 crédits) en U2 ou en U3. Les cours complémentaires (9 crédits) peuvent être complétés en U1, U2 ou en U3.

Normally, the required courses (9 credits) are completed in the following order: QCST 200 (3 credits) in U0 or U1, QCST 300 (3 credits) in U1 and QCST 440 (3 credits) in U2 or in U3. The complementary courses (9 credits) can be completed in U1, U2, or U3.

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 doi

ENGL 313 (3) Canadian Drama and Theatre

### **Environment**

ENVR 380 (3) Topics in Environment 1

### **French Language and Literature / Langue et littérature françaises**

FREN 252 (3) Littérature québécoise  
FREN 315 (3) Cinéma québécois  
FREN 450 (3) Questions de littérature québécoise  
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**

The minor also involves hands-on experience, either through an experiential learning course requiring students to create an entrepreneurial business plan, or through an internship at an NGO or other social enterprise. All Arts students in existing majors and minors with a minimum GPA of 3.0 may apply for the new Minor in Social Entrepreneurship.

Further information is available at [www.mcgill.ca/socent](http://www.mcgill.ca/socent).

**3.10.22.82 Social Entrepreneurship Faculty**

(3) Contemporary Social Movements



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 1
FREN 311	(3)	Cinéma français 2
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](mailto:ids@mcgill.ca)  
Website: [www.mcgill.ca/isid](http://www.mcgill.ca/isid)

Adviser: Lisa Stanischewski, [lisa.stanischewski@mcgill.ca](mailto: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

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 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

3 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

9 credits from the Group B course lists below drawn from at least 2 disciplines with no more than 6 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)	Topics: African History
HIST 579D2	(3)	Topics: 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 & 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  
 HIST 498 () Independent Research  
 HIST 528 (3) Indian Ocean World Slave Trade

### Islamic Studies

ISLA 360 (3) Islam and Politics  
 ISLA 410 (3) History: Middle-East 1798-1918  
 ISLA 521D1 (4.5) Introductory Arabic  
 ISLA 521D2 (4.5) Introductory Arabic

### Political Science

\* Note: Course is counted only when African materials are taught.

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

### 3.1023.34 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)	Topics: African History
HIST 579D2	(3)	Topics: African History

**Anthropology**

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
	(3)	Social Change in Modern Africa



**3.10.23.35 Bachelor of Arts (B.A.) - Joint Honours Component African Studies (36 credits)**

The Joint Honours program in African Studies pro

**Erem2Mh**

\* 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 302	(3)	Environmental Management 1
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
GEOG 423*	(3)	Dilemmas of Development
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 493*	(3)	Health and Environment in Africa

\* Note: Normally offered as field courses (in African Studies Field Semester)

**History**

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 382	(3)	History of South Africa
HIST 444	(3)	Brit2Mh ColoniesAfrica and Asia
HIST 498	()	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

**Islamic Studies**

ISLA 360	(3)	Islam and Polit2cs
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

**Polit2cal Science**

\* Note: Course is counted only when African materials are taught. Admission to this course will be subject to the Polit2cal Science departmental requirements and approval of the Departmental Honours Adviser. Priority will be given to Polit2cal 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
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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 Programs and Stud**



**Stream 1 - Geography**

GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 409	(3)	Geographies of Developing Asia
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

**Stream 1 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 1 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 1 - Management Core**

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

**Stream 1 - Management Policy**

MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 475	(3)	Strategies for Developing Countries

**Stream 1 - Political Science**

POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations

**Stream 1 - Sociology**

SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

**Stream 2: States and Governance**

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote

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

**Stream 2 - Sociology**

SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

**Stream 2 - Social Work**

SWRK 400	(3)	Policy and Practice for Refugees
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**Stream 3: Culture and Society**

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

**Stream 3 - Anthropology**

ANTH 301	(3)	Nomadic Pastoralists
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 338	(3)	Native Peoples of North America
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 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora

**Stream 3 - Canadian Studies**

CANS 315	(3)	Indigenous Art and Culture
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**Stream 3 - History**

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

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 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

**Stream 3 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
		Internship: International DeT(3)TTT

POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

**Stream 3 - 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

**Stream 3 - Sociology**

SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

**Stream 4: Environment and Agricultural Resources**

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

**Stream 4 - Agricultural Economics**

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

**Stream 4 - Agriculture**

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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**Stream 4 - Anthropology**

ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ANTH 512	(3)	Political Ecology

**Stream 4 - Economics**

ECON 326	(3)	Ecological Economics
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**Stream 4 - Geography**

GEOG 302	(3)	Environmental Management 1
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SOCI 254 (3) Development and Underdevelopment

### Streams

15 credits from one of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

### Stream 1: Economic Development and Living Standards

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is also concerned with understanding what "development" actually entails in different contexts.

#### Stream 1 - Agriculture

AGRI 411 (3) Global Issues on Development, Food and Agriculture

#### Stream 1 - Agricultural Economics

AGEC 430 (3) Agriculture, Food and Resource Policy

AGEC 442 (3) Economics of International Agricultural Development

#### Stream 1 - Anthropology

ANTH 227 (3) Medical Anthropology

ANTH 339 (3) Ecological Anthropology

#### Stream 1 - Business Administration

BUSA 433\* (3) Topics in International Business 1

\* When topic is relevant to IDS.

#### Stream 1 - Economics

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 411 (3) Economic Development: A World Area

ECON 416 (3) Topics in Economic Development 2

#### Stream 1 - Geography

GEOG 303 (3) Health Geography

GEOG 310 (3) Development and Livelihoods

GEOG 403 (3) Global Health and Environmental Change

(3) Geography of Development

GEOG 409	(3)	Geographies of Developing Asia
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

**Stream 1 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 1 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 1 - Management Core**

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

**Stream 1 - 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

**Stream 1 - Political Science**

POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations

**Stream 1 - Sociology**

SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

**Stream 2: States and Governance**

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

**Stream 2 - Anthropology**

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

**Stream 2 - Economics**

ECON 223	(3)	Political Economy of Trade Policy
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**Stream 2 - History**

HIST 223	(3)	Indigenous Peoples and Empires
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914

**Stream 2 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 2 - Islamic Studies**

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

**Stream 2 - Latin American & Caribbean Studies**

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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**Stream 2 - Political Science**

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations Arab-Israel Conflict, Crisis, Organizations

POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
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

**Stream 2 - Sociology**

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

**Stream 2 - Social Work**

SWRK 400	(3)	Policy and Practice for Refugees
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**Stream 3: Culture and Society**

The courses in this stream focus on how the social structures, history

**Stream 3 - English**

ENGL 440	(3)	First Nations and Inuit Literature and Media
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**Stream 3 - History**

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

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 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

**Stream 3 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 3 - 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



to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

#### **Stream 4 - Agricultural Economics**

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

#### **Stream 4 - Agriculture**

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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#### **Stream 4 - Anthropology**

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ANTH 512	(3)	Political Ecology

#### **Stream 4 - Economics**

ECON 326	(3)	Ecological Economics
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#### **Stream 4 - Geography**

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

#### **Stream 4 - History**

HIST 361	(3)	Topics in Canadian Regional History
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#### **Stream 4 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

#### **Stream 4 - Management Policy**

MGPO 440	(3)	Strategies for Sustainability
MSUS 402	(3)	Systems Thinking and Sustainability

#### **Stream 4 - Nutrition**

NUTR 501 (3) Nutrition in Developing Countries

#### **3.102345 Bachelor of Arts (B.A.) - Honours International Development Studies (57 credits)**

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.

#### **Course Selection Guidelines for the Overall Program**

1. In their complete program (57 credits), students must take at least 12 credits in at least one discipline, but cannot take more than 21 credits in any one discipline.
2. At least 30 of the 57 credits must be at the 300 level or above; 9 credits of these must be at the 400 level or above.
3. Students are permitted to take up to 3 credits maximum from another Stream Complementary course list, to count towards their chosen Stream Complementary course list.

Students who are pursuing a Field Studies program can ha



6-9 credits of Language courses.

Students are required to master a language appropriate to an area of the developing world in which they have a particular interest. Among the languages that are included are: Arabic, Chinese, French as a Second Language, Korean, Portuguese, Spanish, Swahili and Urdu. Other language options can be approved

GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 409	(3)	Geographies of Developing Asia
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

**Stream 1 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 1 - International Development Studiesm 1 - Histor**

SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

### **Stream 2: States and Governance**

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

#### **Stream 2 - Anthropology**

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

#### **Stream 2 - Economics**

ECON 223	(3)	Political Economy of Trade Policy
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#### **Stream 2 - International Development Studies**

INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

#### **Stream 2 - Islamic Studies**

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

#### **Stream 2 - Latin American & Caribbean Studies**

LA	(3)	Research Seminar: Latin America and the Caribbean
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**Stream 3 - Canadian Studies**

CANS 315	(3)	Indigenous Art and Culture
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**Stream 3 - East Asian Studies**

EAST 211	(3)	Introduction: East Asian Culture: China
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EAST 213	(3)	Introduction: East Asian Culture: Korea
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**Stream 3 - English**

ENGL 440	(3)	First Nations and Inuit Literature and Media
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**Stream 3 - History**

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

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

**Stream 3 - International Development Studies**

INTD 350	(3)	Culture and Development
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INTD 352	(3)	Disasters and Development
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INTD 354	(3)	Civil Society and Development
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INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
		Honours

**Stream 3 - Sociology**

SOCI 234	(3)	Population and Society
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

**Stream 4: Environment and Agricultural Resources**

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

**Stream 4 - Agriculture**

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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**Stream 4 - Agricultural Economics**

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

**Stream 4 - Anthropology**

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ANTH 512	(3)	Political Ecology

**Stream 4 - Economics**

ECON 326	(3)	Ecological Economics
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**Stream 4 - Geography**

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

**Stream 4 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 4 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

**Stream 4 - Management Core**

MGCR 360	(3)	Social Context of Business
MGPO 440	(3)	Strategies for Sustainability
MSUS 402	(3)	Systems Thinking and Sustainability

**Stream 4 - Nutrition**

NUTR 501	(3)	Nutrition in Developing Countries
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**3.1023.4.6 Bachelor of Arts (B.A.) - Joint Honours Component International Development 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".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable).

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.

**Course Selection Guidelines for the Overall Program**

1. At least 24 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above. Ultimately, no Stream complementary courses can be taken at the 200 level.
2. Students are permitted to take up to 3 credits maximum from another Stream Complementary course list, to count towards their chosen Stream Complementary course list.

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.

NOTE: Students in the Econ-IDS Joint Honours program are required to take ECON 257D1/D2 and therefore cannot also take ECON 227 as part of their IDS program requirements.

**Required Courses (15 credits)**

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
INTD 497	(3)	Research Seminar on International Development

**Complementary Courses (21 credits)**

3 credits of Thesis/Seminar or Methods or Language courses.

0-3 credits from the following:

INTD 491	(3)	Honours Thesis
INTD 597	(3)	Seminar in International Development





ANTH 339 (3) Ecological Anthropology

**Stream 1 - Business Administration**

BUSA 356 (3) Management in Global Context

BUSA 433 (3) Topics in International Business 1

**Stream 1 - Economics**

ECON 314 (3) Economic Development 2

ECON 326 (3) Ecological Economics

ECON 336 (3) The Chinese Economy

ECON 411 (3) Economic Development: A World Area

ECON 416 (3) Topics in Economic Development 2

**Stream 1 - Geography**

GEOG 303 (3) Health Geography  
Development and Li

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

### Stream 1 - Mining and Materials Engineering

MIME 524	(3)	Mineral Resources Economics
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### Stream 1 - Natural Resource Sciences

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

### Stream 1 - Political Science

POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations

### Stream 1 - Sociology

SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

### Stream 2: States and Governance

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

### Stream 2 - Anthropology

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

### Stream 2 - International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research

INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

**Stream 2 - Islamic Studies**

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

**Stream 2 - Latin American & Caribbean Studies**

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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**Stream 2 - Political Science**

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
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 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
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 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development

**Stream 2 - Sociology**

SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

**Stream 2 - Social Work**

SWRK 400	(3)	Policy and Practice for Refugees
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**Stream 3: Culture and Society**

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a

constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

### Stream 3 - Anthropology

ANTH 301	(3)	Nomadic Pastoralists
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 338	(3)	Native Peoples of North America
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 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora

### Stream 3 - Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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### Stream 3 - English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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### Stream 3 - History

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

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

**Stream 3 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
		Civil Society and De

RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

**Stream 3 - Sociology**

SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

**Stream 4: Environment and Agricultural Resources**

Within development studies, the en

**Stream 4 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

**Stream 4 - Management Core**

MGCR 360	(3)	Social Context of Business
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**Stream 4 - Nutrition**

NUTR 501	(3)	Nutrition in Developing Countries
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**3.10.23.5 Latin-American and Caribbean Studies (LACS)****3.10.23.5.1 About Latin-American and Caribbean Studies**

Established in 1971, the interdisciplinary program in Latin-American and Caribbean Studies offers a comprehensive array of courses on the peoples, cultures, history, literature, politics, economy, and geography of Latin America and the Caribbean, pro





**Canadian Studies**

CANS 412

(3)

Canada and Americas Seminar

**Economics**

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

### 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

### 3.10.23.5.5 Bachelor of Arts (B.A.) - Major Concentration Latin American Studies (36 credits)

\*\*\* This program has been revised, and the revisions are awaiting government approval. Students interested in this program are advised to consult with the Program Adviser. \*\*\*

### 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

**Economics**

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

**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 202	(6)	Portuguese Language: Beginners
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
		Hispanic Civilization 1

HIST 366	(3)	Themes in Latin American History
HIST 409	(3)	Topics in Latin American History

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

### Latin American and Caribbean Studies

LACS 499	(3)	Internship: Latin America and Caribbean Studies
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### Cluster 1: Literature and Culture - Hispanic Studies

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 302	(3)	Hispanic Literature and Culture in English 2
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 453	(3)	20th Century Latin American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

### Cluster 2: Economics, History, and Political Science

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
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 564D1	(3)	Seminar: Latin American History
HIST 564D2	(3)	Seminar: Latin American History
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters
POLI 227	(3)	Developing Areas/Introduction
POLI 473	(3)	Democracy and the Market

### Cluster 3: Anthropology and Geography

\* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

ANTH 212	(3)	Anthropology of Development
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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
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

**3.10.23.5.7 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

ECON 314 (3) Economic Development 2

### **English**

ENGL 431\* (3) Studies in Drama

\* 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

HISP 332 (3) Latin American Literature of 19th Century



**Political Science**

(3) Developing Areas/Introduction

### Lecturers

Lea Fima; B.Ed.(Beit Berl), M.A.(McG.)

Esther Frank; B.A., M.A.(McG.)

Yuri Vedenyapin; B.A.(Harv.), Ph.D.(Col.)

### Adjunct Professor

Ruth Wisse; M.A.(Col.), Ph.D.(McG.)

Daniel Kupfert Heller; B.A.(Tor.), Ph.D.(Stan.)

#### **3.10.25.4 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 Je

**East European Studies**

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
		Je

JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

### **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 & 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)	(3)	Topics in Jewish Philosophy 1

JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4
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 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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 The Hasidic Mov

JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
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 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 follow629 281 65.864 297.601 Tm((3))Tj182 Tma((3Literatusheias.246 266.161 Tm(The0781 65.864 297.e encourageepartments)Tj1D)

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

### 3.10.25.5 Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 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".

#### Complementary Courses (36 credits)

36 credits in Jewish Studies of which 24 are normally taken at the 300 level or above, selected as described below. Consultation with an adviser is strongly recommended.

#### 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 Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4

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,(w)T1 0 0 1 67tm0 1 536.229 124.224 Tm(wish)a(w)T1Language and I1516568tm0 1 536.229w363864 19m0 1 536.229e de

**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 & 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 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature

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 Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4
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

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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 Medieval Ashkenazi Pvenazi P

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 & 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 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 487	(3)	Tutorial in Yiddish Literature
JWST 488	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

## Jewish History

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JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

### **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 & 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
		Intermediate Hebre





JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
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 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 have been included in the areas of study course lists above.

HIST 194	(3)	FYS: Jewish Concepts of Others
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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

### **3.10.25.7 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
JWST 481	(3)	Advanced Yiddish 2

##### **Areas of Jewish Studies**

15-21 credits, planned with an adviser and normally chosen to reflect progress to the advanced level in one of the areas of study: 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
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & 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 Jewish Labour Mov

JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

### **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 & 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
- (3) Topics in Jewish Philosophy 1

JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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 Je
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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 have been included in the areas of study course lists above.

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
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 Bible, Jewish liturgy, traditions, and history, prior to registering in the program. Students lacking the ability to teach in Hebrew should consider spending a term at an Israeli university.

Further information can be obtained by:

- contacting the Director, Dr. Yael Halevi-Wise, at 514-398-1013;
- consulting [Faculty of Education](#) > [Undergraduate](#) > [Browse Academic Units & Programs](#) > [Department of Integrated Studies in Education](#) > [section 5.8.2.13: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Jewish Studies \(120 credits\)](#);
- consulting [www](#)

### **3.10.26 Languages, Literatures, and Cultures (LLCU)**

#### **3.10.26.1 Location**

Department of Languages, Literatures, and Cultures  
688 Sherbrooke Street West, Suite 425  
Montreal QC H3A 3R1  
Telephone: 514-398-3650  
Email: [info.llcu@mcgill.ca](mailto:info.llcu@mcgill.ca)  
Website:



### 3.10.26.4 German Studies

With faculty members working at the forefront of literary, media, and cultural studies, the Department of Languages, Literatures, and Cultures – German Studies immerses students in both the rich literary traditions of the German language, and in the innovative directions of transdisciplinary research.

With our multiple major, minor, honours, and joint honours undergraduate programs, as well as our graduate program, we accommodate a broad range of student interests, from eighteenth century Enlightenment to questions of migration and multiculturalism in contemporary German culture. While our department offers a wide spectrum of courses in language, literature, and culture, our particular strengths lie in philosophy, critical theory, cultural studies, philology, cinema, and media studies. Students receive close attention and individual mentoring in both their academic and professional training.

We also consider German Studies to be part of a broader humanistic endeavor and encourage students to draw on the wealth of faculty working on relevant topics both at McGill and the many other Montreal universities, in departments and programs such as History, Philosophy, Music, Art History and Communications, Jewish Studies, English, and other national literatures.

#### Undergraduate Programs

Adviser: Daniel Schwartz  
688 Sherbrooke Street West, Room 483  
Telephone: 514-398-4400, ext. 00571

- [section 3.10.26.10: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\) \(Expandable\)](#)
- [section 3.10.26.11: Bachelor of Arts \(B.A.\) - Minor Concentration German Studies \(18 credits\)](#)
- [section 3.10.26.12: Bachelor of Arts \(B.A.\) - Major Concentration German Studies \(36 credits\)](#)
- [section 3.10.26.13: Bachelor of Arts \(B.A.\) - Honours German Studies \(60 credits\)](#)
- [section 3.10.26.14: Bachelor of Arts \(B.A.\) - Joint Honours Component German Studies \(36 credits\)](#)

### 3.10.26.5 Hispanic Studies

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](#).

#### Undergraduate Programs

Adviser: Jose Jouv

- [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 business 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: Lyudmila Parts  
688 Sherbrooke, Room 332  
Telephone: 514-398-4400, ext. 09477

- [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

E. Bolongaro

#### Directors of Undergraduate Studies/Advisers

Lucienne Kroha (*Italian Studies*)

Lyudmila Parts; M.A., Ph.D.(Col.) (*Russian Studies*)

Stephanie Posthumus; B.A.(Calvin), M.A.(Qu.), Ph.D.(UWO) (*European Literature and Culture*)

José R. Jouve-Martín; Lic.Fil.(Autonoma, Madrid), Ph.D.(G'town) (*Hispanic Studies*)

Daniel Schwartz (*German Studies*)

#### Directors of Graduate Studies

Karin Bauer (*German Studies*)

Laura Beraha (*Russian Studies*)

Amanda Holmes (*Hispanic Studies*)

Giuliana Minghelli (*Italian Studies*)

#### Emeritus Professors

P.M. Daly; B.A.(Brist.), Ph.D.(Zürich)

K.M. Sibbald; M.A.(Cant.), M.A.(Liv.), Ph.D.(McG.)

Pamela D. Stewart; B.A.(Montr.), M.A.(McG.), F.R.S.C.

#### Professors

K. Bauer; M.A., Ph.D.(Wash.)

J.R. Jouvé-Martin; Lic.Fil.(Madrid), Ph.D.(G'town)

J. Pérez-Magallón; Lic.Fil.(Barcelona), Ph.D.(Penn.)

P. Peters; B.A.(Man.), Ph.D.(Free Univ., Berlin)

**Professors**

A. Piper; B.A.(Princ.), Ph.D.(Col.)

**Associate Professors**

L. Beraha; B.A., M.A., Ph.D.(McG.)

A. Berman; B.A.(Brown), M.Phil.(Camb.), M.A., Ph.D.(Princ.)

E. Bolongaro; B.A., LL.B.(Br. Col.), M.A., Ph.D.(McG.)

A. Holmes; B.A.(McG.), M.A., Ph.D.(Ore.)

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

F. Macchi; Lic.Lit.(Buenos Aires), M.A.(Ore.), Ph.D.(Yale)

G. Minghelli; M.A., Ph.D.(Johns Hop.)

L. Parts; M.A., Ph.D.(Col.)

S. Posthumus; B.A.(Calvin), M.A.(Qu.), Ph.D.(UWO)

S. Sinclair; B.A.(Br. Col.), M.A.(Vic., BC), Ph.D.(Qu.)

M. Soranzo; Dott.Lett.(Padua), Ph.D.(Wisc.)

**Assistant Professors**

V. Ceia; B.A.(Tor.), M.A.(McG.), Ph.D.(NYU)

T. Holmes; B.A.(Ore.), M.A., Ph.D.(Johns Hop.)

D. Pratt; B.A.(Princ.), M.A., Ph.D.(Chic.)

C. Raynor; M.Sc.(LSE), M.A.(Middlebury), Ph.D.(G'town)

D. Schwartz; B.A.(Chic.), M.A., Ph.D.(Johns Hop.)

**Faculty Lecturers**

Sandra Barriales-Bouche; M.A., Ph.D.(Mass.)

Lucia Chamanadjian; M.A.(Car.)

Cristiana Furlan; M.A., Ph.D.(McG.)

Anny Guimont; M.A.(Montr.)

Maria Ivanova; M.A.(SPbU), Ph.D.(Moscow St.)

Sun-Young Kim; M.A.(Tor.), Ph.D.(Mich.)

Maria-Teresa Mascaro; M.S.(G'town)

Maria Karleen Morrison; M.A.(Tubingen), Ph.D.(Virg.)

Anna Maria Tumino; M.A.(McG.)

**3.10.26.9 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 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 & Culture

**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).



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
ENGL 329	(3)	English Novel: 19th Century 1
ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 347	(3)	Great Writings of Europe 1
ENGL 349	(3)	English Literature and Folklore 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

**Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)**

**Complementary Courses (18 credits)**

18 credits of language courses or any course above the 325 level given in the German language, selected from the following:

**Language Courses**

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

**List of Complementary Courses:**

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 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

### 3.10.26.11 Bachelor of Arts (B.A.) - Minor Concentration German Studies (18 credits)

The Minor Concentration in German Studies provides an introduction to and critical understanding of a variety of aspects of German culture from the eighteenth century to the present day. It is designed to complement other forms of disciplinary and cultural inquiry, such as international studies, the digital humanities, and studies in other languages or geographic areas. Courses 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.

This program may be expanded to a Major Concentration.

#### Complementary Courses (18 credits)

18 credits of courses in German literature, culture, and film taught in English or German selected from the following list.

A maximum of 6 credits of LLCU courses can be taken, with prior departmental approval.

Beginners' and Intermediate Language courses may not be applied towards this Minor Concentration.

GERM 325 may be applied towards this Minor Concentration.

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 325	(6)	German Language - Intensive Advanced
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

### **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 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**

German Language, Intensive BegisSldp major w



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
		20th Century Literature

6 credits must be in pre-20th century literature and culture.

Students can take a maximum of 6 credits of LLCU courses and only with prior approval.

A maximum of 9 credits in GERM courses offered in English and only with prior approval.

3 credits at the 400-level.

**Language Courses**

German Language, Intensive Beginners



**Literature and Culture Courses**

\*NOTE: Students can take either GERM 331 or GERM 336 but not both.

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
GERM 331	(3)	Germany after Reunification
GERM 332	(3)	Topics in Eighteenth-Century German Literature and Culture
GERM 333	(3)	What is Enlightenment?
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 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

**3.10.26.15 Bachelor of Arts (B.A.) - Minor Concentration Hispanic Studies (18 credits)**

The Minor Concentration in Hispanic Studies provides students with a solid foundation on Spanish language and culture. It can be expanded to the Major Concentration in Hispanic Studies - Languages, if a language course is included in the Minor Concentration, or the Major Concentration in Hispanic Studies - Literature and Culture, if no language course is included in the Minor Concentration.

**Complementary Courses**

0-12 credits in language courses.

HISP 210	(6)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220	(6)	Spanish Language: Intermediate

If fewer than 12 credits are chosen, students must fulfill the balance from other eligible HISP courses as listed below.

At least 3 credits in Surveys of Literature to be chosen from the following courses:

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

At least 3 credits chosen from the following courses [Note: No more than 6 credits in courses taught in English shall count towards the Minor Concentration.]

### Courses Taught in Spanish

HISP 321	(3)	Hispanic Literature of the 18th Century
HISP 324	(3)	20th Century Drama
HISP 325	(3)	Spanish Novel of the 19th Century
HISP 326	(3)	Spanish Romanticism
HISP 327	(3)	Literature of Ideas: Spain
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 340	(3)	Latin American Cinema
HISP 341	(3)	Spanish Cinema
HISP 350	(3)	Spanish Literature from 1898 to the Civil War
HISP 352	(3)	Latin American Novel
HISP 356	(3)	Latin American Short Story
HISP 358	(3)	Gender and Textualities
HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
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 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque
HISP 505	(3)	Seminar in Hispanic Studies 01

### Courses Taught in English

## Hispanic Civilization I

HISP 326 (3) Spanish Romanticism  
HISP 327 (3) Literature of Ideas: Spain  
HISP8327 Literature 19th Cent Spain (3) Literature of Ideas: Latin America

HI458327 Literat: Baroqueain(3)

~~HIS4327~~ (3)

HIS5 327 (3)

**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 Univ



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  
 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 above the Intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

No more than 12 credits in courses taught in English shall count towards this program.

#### 3.10.26.19 Bachelor of Arts (B.A.) - Minor Concentration Italian Studies (18 credits)

This program may be expanded to the Major Concentration Italian Studies.

#### Complementary Courses (18 credits)

18 credits selected from three Italian course lists as follows:

Group A – Basic Language Courses and Group B – Courses taught in Italian (12-18 credits combined)

Group C – Courses taught in English (0-6 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 towards 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 & 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

**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 & 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 V

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
		Italian for ginners

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)	(3)	Mediterranean Society and Culture
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30 credits, 6 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

12-30 credits from Group B – Courses Taught in Italian.

0-18 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in IC – Courses

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**

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  
 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

**3.10.26.23 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 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 390

(3)

Special Topics in Russian  
Soviet Cinema:(3)

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

**Group C (9 credits)**

9 credits selected from the following courses or their equivalent:

RUSS 213	(3)	Introduction to Soviet Film
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 365	(3)	Supernatural and Absurd in Russian Literature
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 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.

**3.10.26.26 Bachelor of Arts (B.A.) - Honours Russian (60 credits)**

The Honours Russian program is for students intending to pursue graduate studies or advanced careers in the field. Students must complete 60 credits in the program, and according to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

By arrangement with the Department and subject to University approval, transfer credits will be accepted from Department-approved exchange/immersion programs.

Students who have acquired language competency elsewhere will replace lower-level courses with upper-level courses. A total of 6 credits may be taken in courses offered by other departments in the Faculty; these are listed at the end of this section. Students are particularly encouraged to select from LLC course offerings.

For admission into the Honours program and approval of all course selections, students must regularly consult with an academic adviser in the Department.

Honours students, according to Faculty regulations, also must complete at least a minor concentration (18 credits) in another academic unit.

**Group A: Required Courses (12 credits)**

RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

RUSS 490*	(3)	Honours Seminar 01
RUSS 491*	(3)	Honours Seminar 02

\* 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

**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 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov



Prior to registering for each Joint Honours component, students must see advisers in the respective departments for approval of their selection. Departmental advisers will only approve combinations that are feasible, given the nature of the research project that would be involved. Students who neglect to obtain prior approval may jeopardize their graduation.

### 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: [www.mcgill.ca/linguistics](http://www.mcgill.ca/linguistics)

#### 3.10.27.2 About Linguistics

Linguistics is the scientific study of human language. Topics 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); how language is processed and represented in the brain (psycho- and neurolinguistics); how languages change over time (historical linguistics); and how languages vary in relation to region and social identity (dialectology and sociolinguistics). In addition to preparing students for advanced academic work in linguistics and related disciplines (e.g., anthropology, cognitive neuroscience, computer science, philosophy, or psychology), courses in linguistics provide a useful background for many careers such as language teaching, translation, child psychology, speech-language pathology, communication, and speech technology.

The Linguistics department offers a minor concentration, a major concentration, an honours program, and a joint honours program with other departments in the Faculty of Arts.

#### 3.10.27.3 New Students

Students who are registering with the Department for the first time must attend the Department orientation meeting before seeing an adviser; further information is available at [www.mcgill.ca/linguistics/undergraduate](http://www.mcgill.ca/linguistics/undergraduate).

#### 3.10.27.4 Requirements

Linguistics students must do at least two-thirds of their Linguistics courses at McGill. Honours students must also do their Honours thesis at McGill. Inquiries may be addressed to the Departmental office or the [advisers for undergraduate studies](#).

#### 3.10.27.5 Linguistics Faculty

##### Chair

L. Alonso-Ovalle

##### Emeritus Professors

C.D. Ellis; B.A.(Camb. & McG.), M.A.(Tor. & Yale), Ph.D.(McG.)

M. Gopnik; M.A., Ph.D.(Penn.)

M. Paradis; B.A.(Montr.), M.A., Ph.D.(McG.), Ph.D.(Montr.)

G.L. Piggott; B.A.(W.I.), M.A., Ph.D.(Tor.)

L. White; M.A.(Camb.), Ph.D.(McG.) (*James McGill Emerita Professor*)

##### Professors

B. Gillon; B.A., M.A.(Mich.), M.A.(Tor.), Ph.D.(MIT)

L. de M. Travis; B.A.(Yale), Ph.D.(MIT)

##### Associate Professors

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## **Associate Professors**

H.M. Goad; B.A.(Br. Col.), M.A., Ph.D.(USC)

B. Schwarz; M.A.(Tü)

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

Any course in language (other than the student's native language) - literature courses are not acceptable.

### Mathematics

MATH 240	(3)	Discrete Structures
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### Philosophy

PHIL 304	(3)	Chomsky
PHIL 306	(3)	Philosophy of Mind
PHIL 415	(3)	Philosophy of Language

### Psychology

PSYC 311	(3)	Human Cognition and the Brain
PSYC 316	(3)	Psychology of Deafness
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 433	(3)	Cognitive Science
PSYC 530	(3)	Applied Topics in Deafness



(3) Methods: Developmental Psycholinguistics



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 Ver**

\* Note: If Math 315 has already been tak

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)	Regression and Analysis of Variance

### Complementary Courses (3 credits)

3 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
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

### 3.10.29.6 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, MATH 423, MATH 447, MATH 523, and MATH 525.

**Required Courses (21 credits)**

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 314	(3)	Advanced Calculus
MATH 323	(3)	Probability

**Complementary Courses (15 credits)**

15 credits selected as follows:

At least 9 credits from:

\* Note: Either MATH 249 or MATH 316 may be taken but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Structures 2
MATH 423	(3)	Regression and Analysis of Variance

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
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

### **3.10.29.7 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)**

#### **Revision, May 2019. Start of revision.**

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 3.0 or higher is required. For more information, see the Joint Honours Handbook.

\*\*\* 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

**Revision, May 2019. End of revision.**

### **3.10.29.8 Bachelor of Science (B.Sc.) - Honours Applied Mathematics (63 credits)**

**Revision, May 2019. Start of revision.**

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, Management, Physics, Physiology, 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 MA



COMP 252	(3)	Honours Algorithms and Data Structures
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 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Honours Discrete Mathematics
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 358	()	
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 mathematics are urged to choose these as part of their Complementary Courses: MATH 454, MATH 455 and MATH 478, and are advised to choose additional courses from MATH 387, MATH 397, MATH 555, MATH 560, MATH 574, MATH 578, MATH 579, MATH 580, MATH 581.

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 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 480	(3)	Honours Independent Study
		Honours Set

MATH 358	(0)	
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

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.

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)	Honours 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, and MATH 517.

Part 1: 3 credits selected from:

MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis

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 551	(4)	Applied Machine Learning
MATH 430	(3)	Mathematical Finance
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

Revision, July 2019. End of revision.

### 3.10.29.11 Bachelor of Science (B.Sc.) - Honours Mathematics and Computer Science (78 credits)

Revision, April 2019. Start of revision.

Students may complete this program with a minimum of 72 credits or a maximum of 78 credits depending if they are exempt from COMP 202/204/208 and/or MATH 222.

#### Program Prerequisites

Students must consult an Honours adviser in both departments to ensure that they have sufficient background to enter the program. The minimum requirements are the following courses or their equivalencies:

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.

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

(36-39 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.

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

36-39 credits

0-3 credits selected from:

COMP 202**	(3)	Foundations of Programming
COMP 204**	(3)	Computer Programming for Life Sciences
COMP 208**	(3)	Computer Programming for Physical Sciences and Engineering

\*\* Students who have sufficient knowledge of computer programming are not required to take COMP 202/204/208.

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	()	

18 credits in Mathematics, at least 12 credits selected from:

+ Not open to students who have taken MATH 354.

MATH 356	(3)	Honours Probability
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Montreal QC H3A 1E3  
Telephone: 514-398-4535  
Fax: 514-398-1540  
Website: [www.mcgill.ca/music](http://www.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 [www.mcgill.ca/music/student-resources/undergraduates/new-students/placement-exams](http://www.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](#).



**MUAR Courses**

MUAR 201	(3)	Basic Materials: Western Music
MUAR 211	(3)	The Art of Listening
MUAR 374	(3)	Special Topics in Music
MUAR 384	(3)	Romanticism and the Piano
MUAR 392	(3)	Popular Music after 1945
MUAR 393	(3)	Introduction to Jazz
MUAR 399	(3)	Music and Queer Identity

**Courses with the MUHL, MUTH and MUMT prefixes**

The Music History and Literature (MUHL), Music Theory and Analysis (MUTH), and Music T

### **Prerequisite Courses**

Students must complete the diagnostic placement exams for music theory and musicianship. Depending on the results, they may be asked to register for one or more of the prerequisite courses listed below. These prerequisite courses cannot be counted toward the 18 credits of the program requirements.

MUHL 186	(3)	Western Musical Traditions
MUSP 140	(2)	Musicianship Training 1
MUTH 100	(3)	Music Theory Fundamentals
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

### **Required Courses (9 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
	(3)	Theory and Analysis 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 Music Research: Composition; Music Education; Music History; Theory; Faculty Program > section 10.8.1.12459100016537e8B The credit to Music Applications of Technology \(18 credits\)](#).

##### 3.10.30.8.2 Minor in Musical Science and 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 Music Research: Composition; Music Education; Music History; Theory; Faculty Pr](#)

classes in philosophy are directly relevant to their major area of study. The Department has a strong commitment to providing an intensive yet broad-based philosophical education. The research interests of members of the Department are wide-ranging.

See also the separate listing for [section 3.10.22.3: History and Philosophy of Science \(HPSC\)](#).

**Note:** Philosophy students may use either PHIL 200 or PHIL 201 toward their program requirements, but not both. Students may, however, take

**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.) (*Political Science*)

**Affiliate Members**

Steven Davis; B.A.(Roch.), M.A., Ph.D.(Ill.) (*Emeritus Professor of Philosophy, Carleton*)

Iain Macdonald; B.A.(C'dia), M.A.(Wales), D.E.A.(Nice), Ph.D.(Essex)

**3.10.31.4 Bachelor of Arts (B.A.) - Minor Concentration Philosophy (18 credits)****Complementary Courses (18 credits)**

18 credits, of which no more than 9 credits may be at the 200 level and at least 3 credits must be at the 400 or 500 level, distributed as follows:

15 credits from Groups A, B, C, D, and E with one course from at least four of the five groups.

3 additional credits from Groups A, B, C, D, and E or from other Philosophy (PHIL) courses.

**Group A**

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
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

**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 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 C**

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

**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 E**

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

**3.10.31.5 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 Philosoph

**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
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 CGP



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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### **3.10.31.8 Philosophy (PHIL) Related Programs**

#### **3.10.31.8.1 Minor in Cognitive Science**

Students following Major or Honours programs in Philosophy with an interest in cognition may consider the Minor in Cognitive Science. For more information, see [Faculty of Science](#) > [Undergraduate](#) > [Browse Academic Units & Programs](#) > [section 11.13.8: Cognitive Science](#).

### **3.10.32 Political Science (POLI)**

#### **3.10.32.1 Location**

Stephen Leacock Building, Room 414

855 Sherbrooke Street West

Montreal QC H3A 2T7

Telephone: 514-398-4800

Website: [www.mcgill.ca/0.202/Tm\(est\)Tjee1.693/440.202/c6.52/Tm8\(PHIL\)/Relate3eTj0/Tc/F1/8.n0/1/127.475/4Tj1/0/0/1/81.utT\)Tj1/UG0/g/F1/8.1/Tf1/0/0/2Tm\(eb](http://www.mcgill.ca/0.202/Tm(est)Tjee1.693/440.202/c6.52/Tm8(PHIL)/Relate3eTj0/Tc/F1/8.n0/1/127.475/4Tj1/0/0/1/81.utT)Tj1/UG0/g/F1/8.1/Tf1/0/0/2Tm(eb)

**Emeritus Professor**

Baldev Raj Nayar; B.A., M.A.(Punj.), M.A., Ph.D.(Chic.)

**Professors**

Daniel Béland; B.A.(UQAM), M.A.(UQAM), Ph.D.(École des Hautes Études en Sciences Sociales.(Paris)

Éric Bélanger; B.A., M.A.(Laval), Ph.D.(Montr.)

Mark R. Brawley; B.A.(Calif.), M.A., Ph.D.(Calif.-LA)

Michael Brecher; B.A.(McG.), M.A., Ph.D.(Yale), F.R.S.C. (*R.B. Angus Professor of Economics and Political Science*)

Rex Brynen; B.A.(Vic., BC), M.A., Ph.D.(Calg.)

Elisabeth Gidengil; B.A.(LSE), M.A.(NYU), Ph.D.(McG.) (*Hiram Mills Chair*)

Juliet Johnson; B.A.(Stan.), M.A., Ph.D.(Princ.)

Jacob Levy; A.B.(Brown), M.A., Ph.D.(Princ.) (*Tomlinson University Chair*)

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

Christopher Manfredi; B.A., M.A.(Calg.), M.A., Ph.D.(Claremont)

Philip D. Oxhorn; B.A.(Redlands), M.A.(Cant.), Ph.D.(Harv.)

T.V. Paul; B.A.(Kerala), M.Phil.(J. Nehru U.), M.A., Ph.D.(Calif.-LA) (*James McGill Professor*)

Vincent Pouliot; B.Sc.(Montr.), D.E.A.(Bordeaux), Ph.D.(Tor.) (*William Dawson Scholar*)

Filippo Sabetti; B.A.(McM.), M.A., Ph.D.(Ind.)

Richard Schultz; B.A.(York), M.A.(Manc.), Ph.D.(York)

Dietlind Stolle; M.A.(Claremont), Ph.D.(Princ.)

Narendra Subramanian; B.A.(Princ.), M.A., Ph.D.(MIT)

Jennifer Welsh; B.A.(Regina), B.A.(Sask.), M.Phil.(Oxf.), D.Phil.(Oxf.)

**Associate Professors**

Arash Abizadeh; B.A.(Winn.), M.Phil.(Oxf.), Ph.D.(Harv.)

Leonardo Baccini; M.A.(Bologna), Ph.D.(Trinity Coll., Dublin)

Megan Bradley; M.A.(St. And.), M.Sc., D.Phil.(Oxf.)

Victor Muñoz Fraticelli; B.A.(Cornell), J.D.(Puerto Rico), M.A., Ph.D.(Chic.)

Erik Kuhonta; B.A.(Penn.), M.A., Ph.D.(Princ.)

Catherine Lu; B.A., M.A.(Br. Col.), Ph.D.(Tor.)

Hudson Meadwell; B.A.(Manit.), M.A., Ph.D.(Duke)

Khalid Medani; B.A.(Brown), M.A.(G'town), M.A., Ph.D.(Calif., Berk.)

Krzysztof Pelc; B.A., B.Com.(Qu.), Ph.D.(G'town) (*William Dawson Scholar*)

Maria Popova; B.A.(Dart.), Ph.D.(Harv.)

Christa Scholtz; B.A.(Alta.), M.A.(Ott.), Ph.D.(Princ.)

Juan Wang; B.A.(Henan), M.A.(Peking), Ph.D.(Johns Hop.)

**Assistant Professors**

Manuel Balan; Proc., J.D.(Palermo), Ph.D.(Texas-Austin)

Aaron Erlich; M.A.(G'town), M.A.(Wash.), Ph.D.(Wash.)

Kelly Gordon; B.A.(Calg.), M.A., Ph.D.(Ott.)

Fernando Nuñez-Mietz; B.A.(Univ. de San Andrés, Argentina), M.A., Ph.D.(Ohio St.)

William Clare Roberts; B.A.(Carleton Coll.), Ph.D.(Penn. St.)

Hamish van der Ven; M.A.(Br. Col.), Ph.D.(Tor.)

Yves Winter; B.Sc.(LSE), M.A.(Paris X), Ph.D.(Calif., Berk.)

**Associate Members**

Benjamin Forest; M.A., Ph.D.(Calif.-LA)

Daniel Weinstock; M.A.(McG.), D.Phil.(Oxf.)

**3.10.32.6 Bachelor of Arts (B.A.) - Minor Concentration Political Science (18 credits)**

This program may be expanded to the Major Concentration Political Science.

**Complementary Courses (18 credits)**

18 credits selected as follows:

6-9 POLI credits at the 200 level.

9-12 POLI credits at the 300 level or above.

No more than 6 POLI transfer credits can be used toward the program requirements.

POLI 490, POLI 499, and POLI 599 cannot be used towards the Minor program.

**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 15 of the 36 credits may be at the 200 level.

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 12-15 credits from at least three of the four main fields of 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 field of political science 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 1
POLI 327	(3)	U.S. Politics 2
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

T

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 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 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
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	(0)	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 History of Political/Social



Note: Students who believe that a case can be made for certain courses not included above, may request approval from the Honours Adviser by submitting a written appeal. With respect to Interdisciplinary programs (Canadian Studies, East Asian Studies, Middle East Studies, Quebec Studies etc.) only courses with the program's subject code (CANS, EAST, MEST, QCST) are eligible to be counted toward the Honours program.

A maximum of 18 credits may be at the 200 level.

At least 3 credits must be taken in Political Theory (see the course list for this field below).

No more than one-half of a student's political science credits may be in any one field (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, Political Theory). However, if the field is Comparative Politics and if courses are taken in both Developed Areas and Developing Areas, the maximum is 30 credits. Refer to the lists below for course choices in each field.

One quarter (12 credits) of political science must be at the 400 level or above including one 500-level Honours Seminar or a 600-level Graduate Seminar. This one-quarter rule may be satisfied by taking one 400-, one 500-, and one 600-level course. Refer to the lists below for course choices at the 400 and 500 levels in each field. Consult the class schedule in MINERVA for 600-level course choices.

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 field of political science are provided below.

NOTE: POLI 200 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 1
POLI 327	(3)	U.S. Politics 2
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

## 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 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 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
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	()	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 Theor449empor 0 0 22 Tm(POLI 333) 449 109 766 60 LR 4199 0 0 1 221.949ndy1 0((3))Tj1 0 0 1 70.52.949ndy1 0(POLI 333)Tj1 0 0 1 22

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

### **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>)

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 Government and Politics - Dev, Place, and Po
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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 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 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
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	()	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

### **3.10.33 Psychology (PSYC)**

#### **3.10.33.1 Location**

### **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](#))



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
		Introduction to

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

### 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 Special Topics Seminar

**Recommended Background for Quebec CEGEP Students**

Students planning to apply to a Bachelor of Arts degree with a Major Concentration Psychology or a Bachelor of Arts and Science degree with a Major Concentration Psychology are advised to take courses in Introductory Psychology and Human Biology at the collegial level.

**Program Prerequisites**

Students planning to enter the Major Concentration Psychology program are required to complete courses in Introductory Psychology and Human Biology at the collegial level or in their first year of study at McGill University.

Students who have completed 350-101 or 350-102 in CEGEP are exempt from the PSYC 100 requirement.

Bachelor of

PSYC 318	(3)	Behavioural Neuroscience 2
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)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
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 Learning and 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
(3)	(3)	Methods: Developmental Psycholinguistics

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
		Adv

The application is available on the Psychology Dept website at:

<http://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses>. The deadline is specified on the application form. Candidates will be informed of the Department's decision via email before classes begin in September.

Students should note that awarding of the Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 482. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in the required honours courses, namely PSYC 380D1/PSYC 380D2, PSYC 482. "Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in the required honours courses, namely PSYC 380D1/PSYC 380D2, PSYC 482. Moreover, the awarding of the Honours degree normally requires completion of two full years of study, U2 and U3, in the Honours program in the Psychology Department. Students with particularly strong academic records may be admitted for the U3 year only on the basis of their marks and research experience. These students must complete all Honours program requirements.

### **Program Prerequisites**

#### **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 Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students will receive 4 credits for this requirement with 3 credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOC).

Bachelor of Arts and Science students will receive 4 credits for this requirement with 3 credits in Psychology at the 300 level or above.

\*\* Note: PSYC 305 may be taken in U1 or U2.

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
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 48230	(3)	Advanced Honours Seminar
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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
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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 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)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
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 Learning and 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)**

6 credits in Psychology from List B:

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

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Students should note that awarding of the Joint Honours degree will depend on both cumulative grade point average and a minimum grade of B on PSYC 380D1/PSYC 380D2, PSYC 482. "First Class Honours" is awarded to students who obtain a minimum CGPA of 3.50 and a minimum grade of A- in the required honours courses (i.e: PSYC 380D1/D2, PSYC 482). "Honours" is awarded to students with a minimum CGPA of 3.00 and a minimum grade of B in the required honours courses.

In addition to the requirements of the Joint Honours Component Psychology, students must also complete all requirements of their other Joint Honours component.

Admission to the Joint Honours component is selective. Students with a cumulative grade point average of 3.00 or higher are eligible to apply; however, normally only students with a U1 GPA above 3.50 are admitted. Students must complete a minimum of 27 graded credits in two terms in their U1 year to be eligible to apply. Once in the Joint Honours component, students must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Students in the Joint Honours component are encouraged to complete a minimum of 27 graded credits per academic year. This is also the minimum number of credits required to be eligible for fellowships and awards.

Students may apply to the Joint Honours component upon completion of the U1 year. Eligible students must have completed the following Psychology courses: PSYC 204, PSYC 211, PSYC 212, PSYC 213 and PSYC 215. Students are advised to complete PSYC 305 in their U1 year.

The application is av

**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: [www.mcgill.ca/religiousstudies](http://www.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 level. 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 conte

The first lecturer was the Right Reverend Leslie Hunter. More recent lecturers have included Huston Smith, Northrop Frye, Wilfred Cantwell Smith, Gregory Baum, Robert McAfee Brown, Krister Stendahl, Charles Adams, Jon Levenson, David Little, Azim Nanji, P

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- Two letters of recommendation including at least one from an instructor in an academic institution previously attended. Your referee must download and use the [B.Th. Reference Form](#) (available at [www.mcgill.ca/religiousstudies/theology/bth](http://www.mcgill.ca/religiousstudies/theology/bth)).

The two letters of recommendation must be sent to:

Bachelor of Theology Program  
 Enrolment Services  
 Student Records  
 McGill University  
 3415 McTavish Street, Room MS-13  
 Montreal QC H3A 0C8  
 Canada

If you are applying to one of the Theological Colleges, another complete set of these required documents must also be sent to the College concerned.

**Please note that your file will not be considered by the Admissions Committee until all the required documents have been received.**

### *3.10.34.7.12 Application Deadlines*

Applicants to the B.Th. program may be accepted into the Fall or Winter term. The online application deadlines are:

#### **September admission (Fall term)**

Canadian and International applicants: **May 1**

#### **January admission (Winter term)**

Canadian and International applicants: **November 1**

Please note that all required documents listed in [section 3.10.34.7.1.1: Application Procedures](#) must be received by the School of Religious Studies prior to these deadlines in order for the applicant to be considered by the Admissions Committee.

### *3.10.34.7.13 Admissions Review Procedure*

An unsuccessful applicant, or a School of Religious Studies Council member acting on behalf of an unsuccessful applicant, who believes that not all factors having a bearing on the application have been fully considered, may submit a request for a review of the decision.

The request must be made in writing and directed to the Chair of the B.Th. Admissions and Awards Committee. A CAD \$40 certified cheque or money order made payable to McGill University must accompany the request. The request must include information in support of reconsideration, such as a description of significant change in the applicant's circumstances since the initial consideration, correction of any missing or erroneous information in the application, or information that the applicant believes may have been overlooked when the original decision was made.

Requests for reconsideration must be received at McGill no more than two weeks after notification of refusal.

The review procedure will be carried out by the B.Th. Admissions and Awards Committee. Please note that the original admission decision will stand unless the Committee is persuaded that admissions standards have been misapplied or that an applicant's academic record has been misapprehended.

Decisions on Special, Visiting, and Exchange applications are final; requests for reconsideration will not be considered.

### **3.10.34.7.2 Registration Procedures**

All students register using [Minerva](#), McGill's web-based registration system. Minerva provides web access to registration, class schedules, course descriptions, and address changes. Further information regarding registration is available at [University Regulations & Resources > Undergraduate > section 1.3: Registration](#) or [www.mcgill.ca/accepted](http://www.mcgill.ca/accepted).

### **Withdrawal Procedures**

Dropping or adding courses must be done via [Minerva](#), prior to the deadline listed at [University Regulations & Resources > Undergraduate > Registration > section 1.3.1: Registration Periods](#). Permission of the adviser is required for all changes to course selection. In case of withdrawal from the Uni, prior to publication of the

You are placed in Probationary Standing if either your CGPA or your term GPA falls between 1.50 and 1.99. (If you are a part-time student, your GPA is calculated on the basis of your last 9 credits.) While in Probationary Standing, you may take a minimum of 6 credits and a maximum of 12 credits per term.

While in Probationary Standing, you may return to Satisfactory Standing by completing 12 additional credits with a GPA of at least 2.50, or by completing 12 credits with a GPA and a CGPA of 2.00 or greater.

As a student in Probationary Standing, if you fail to achieve the levels of performance specified above, you will be placed in Unsatisfactory Standing, unless you obtain a GPA of 1.50–1.99 while continuing to have a CGPA of 2.00 or greater.

**Unsatisfactory Standing**

You are placed in Unsatisfactory Standing if you have a GPA of less than 1.50.

As a student in Unsatisfactory Standing, you will have to withdraw, or seek re-attendance, credits per term. (See the Student Handbook for more information.)

### 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

Maurice Boutin; B.A., B.A., B.A.(Montr.), D.Th.(Munich)

Douglas J. Hall; B.A.(W. Ont.), M.Div., S.T.M., Th.D.(U.T.S., N.Y.), L.L.D.(Wat.), D.D.(Pres. Col.), D.D.(Qu.)

Donna Runnalls; B.A.(Br. Col.), B.D.(McG.), Ph.D.(Tor.)

Frederik Wisse; Ing.(Utrecht), B.A., B.D.(Calvin, Mich.), Ph.D.(Claremont)

Katherine K. Young; B.A.(Vermont), M.A.(Chic.), Ph.D.(McG.)

#### Post-Retirement Professor

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, Florence), Dr. Habil.(Humboldt, 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 Braitstein; M.A.(McG.) (*Indo-Tibetan Buddhism*)

Daniel Cere; B.A, M.A.(McG.), Ph.D.(C' dia) (*Religion, Ethics, and Public Policy*)

Gaëlle Fiasse; B.A., M.A., Ph.D.(Louvain-le-Neuve) (*Ethics and Religious Ethics*) (joint appt. with Department of Philosophy)

Garth W. Green; M.A.(Boston), M.A.(Leuven), Ph.D.(Boston) (*John W. McConnell Professor of Philosophy of Religion*)

Ian H. Henderson; B.A.(Manit.), B.D.(St. And.), M.A.(McM.), D.Phil.(Oxf.) (*New Testament Studies*)

Patricia G. Kirkpatrick; B.A.(McG.), M.Th.(Lond.), D.Phil.(Oxf.), D.D.(Montr. Dio. Coll.) (*Old Testament Studies*)

Andrea M. Pinkney; B.A.(McG.), M.A.(Hawaii at Manoa), Ph.D.(Col.) (

## Adjunct Faculty

Alyson Huntly; Dip.Min.(Centre for Christian Studies, Winnipeg), M.T.S.(St. And., Saskatoon), Ph.D.(Qu.)

Philip Joudrey; B.A., M.Div.(Acad.), D.Min.(Andover Newton Theological School)

William Klempa; B.A.(Manit.), M.A.(Tor.), B.D., D.D.(Knox, Tor.), Ph.D.(Edin.)

Thupten Jinpa Langri; B.A., Dr.Div.(King's Coll., Lond.), Ph.D.(Camb.)

Lucille Marr; B.A., M.A., Ph.D.(Wat.)

Angelica Piché; B.A.(Saarbruck1 257.p73.(King'



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)	Sexual Ethics
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
RELG 332	(3)	Conversations Across World Religions
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 358	(3)	Religion and Cinema in India
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 378	(3)	Pilgrimage and Religious Tourism in South Asia
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 444	(3)	Indian Ocean Religious Networks
RELG 451	(3)	Zen: Maxims and Methods
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 456	(3)	Theories of Religion
RELG 479	(3)	Christianity in Global Perspective
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 547	(3)	Special Topics in Hinduism
RELG 554	(3)	Religions of South Asia
RELG 555	(3)	Honours Seminar
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

**Bachelor of Ar**

RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

### **Religions of Asia**

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East 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 & 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: Maxims and Methods
RELG 452	(3)	East Asian Buddhism

ISLA 310	(3)	Women in Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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 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 456

(3)

Theories of Religion

**Complementary Courses (33 credits)**

33 credits, no more than 12 of which may be taken at the 200 level, selected with the following specifications:

Religious T

RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

**Religions of Asia**

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East 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 & 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: Maxims and Methods
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

9 credits from Themes in Religion, Culture and Globalization:

ISLA 310	(3)	Women in Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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 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 and Religious Tourism in South Asia
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 555	(3)	Honours Seminar
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.) - Honours Religious Studies - Asian Religions (60 credits)**

The Honours Religious Studies offers a degree of analysis and concentration beyond that of the Major program through coursework, intensive research and discussion with peer groups.

There are no prerequisites for entry to the program. Students must, however, maintain a program GPA and a CGPA of 3.00 (or 3.50 for First Class Honours).

While gaining general knowledge of the study of religion, students also develop more concentrated expertise in either the Western Religions or Asian Religions option.

The requirements set out below pertain to the Asian Religions option.

### Required Courses (9 credits)

RELG 252	(3)	Hinduism and Buddhism
RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

### Complementary Courses (51 credits)

51 credits selected with the following specifications:

3 credits introductory courses on Western Religions

6 credits from Asian Languages

15 credits from Themes in Religion, Culture and Globalization

6 credits from Western Religions

21 credits from Religions of Asia (3 credits must be a 500-level research seminar)

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

6 credits from Asian Languages chosen in consultation with the Program Adviser. Asian Language courses from other units may be chosen with approval of the Religious Studies Honours program adviser.

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 266	(3)	Introductory Tamil 1
RELG 267	(3)	Introductory Tamil 2
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

15 credits from Themes in Religion, Culture and Globalization:

RELG 207	(3)	Introduction to the Study of Religions
RELG 208	(3)	World Religions and Cultures They Create



RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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 and Religious Tourism in South Asia
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

6 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 & Interpretations

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RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Christian Ethics of Love
RELG 379	(3)	Eastern Orthodox Christianity
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

21 credits from Religions of Asia (3 credits of which must be a 500-level research seminar):

RELG 253	(3)	Religions of East 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 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 Honours students with prior approval from the Religious Studies Honours program adviser.

### 3.10.34.14 Bachelor of Arts (B.A.) - Honours Religious Studies - Western Religions (60 credits)

The Honours Religious Studies offers a degree of analysis and concentration beyond that of the Major program through coursework, intensive research and discussion with peer groups.

There are no prerequisites for entry to the program. Students must, however, maintain a program GPA and a CGPA of 3.00 (or 3.50 for First Class Honours).

While gaining general knowledge of the study of religion, students also develop more concentrated expertise in either the Western Religions or Asian Religions option.

The requirements set out below pertain to the Western Religions option.

### Required Courses (9 credits)

RELG 204	(3)	Judaism, Christianity and Islam
RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

### Complementary Courses (51 credits)

51 credits selected with the following specifications:

3 credits introductory courses on Religions of Asia

6 credits of Scriptural Languages related to Western religious traditions (selected in consultation with the Program Adviser)

15 credits from Themes in Religion, Culture and Globalization

6 credits from Religions of Asia

21 credits chosen from courses on Western Religions, of which 3 credits must be a 500-level research seminar

3 credits from introductory courses on Religions of Asia:

RELG 252	(3)	Hinduism and Buddhism
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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
RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek
RELG 381	(3)	Advanced New Testament Greek
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 482	(3)	Exegesis of Greek New Testament
RELG 491	(3)	Hebrew Texts
RELG 492	(3)	Hebrew Texts
RELG 583	(3)	Hellenistic Religious Texts

15 credits from Themes in Religion, Culture and Globalization:

RELG 207	(3)	Introduction to the Study of Religions
RELG 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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 and Religious Tourism in South Asia
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

6 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 & Sexuality in Hinduism
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 442	(3)	Pure Land Buddhism
RELG 451	(3)	Zen: Maxims and Methods
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 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism

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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 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 & Interpretations
RELG 308	(3)	Ancient Bible Translations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Christian Ethics of Love Eastern Orthodox Christianity



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 and Religious Tourism in South Asia
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 & 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: Maxims and Methods
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
	(3)	Religions of South 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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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	(3)	Religious Controversies
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 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 & Interpretations

RELG 308	(3)	Ancient Bible Translations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Christian Ethics of Love
RELG 379	(3)	Eastern Orthodox Christianity
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

### 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.

### 3.10.34.17 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.

The required and complementary course requirements below describe the program for students who enter in Year 0 (U0).

Students who enter in Year 1 (U1) with 30 credits of advanced standing based on a Quebec Diploma of Collegial Studies (DEC) are exempt from taking RELG 203 Bible and Western Culture and RELG 207 The Study of World Religions 1.

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. Normally, these students start in Year 2 (U2) and are exempt from taking RELG 203 Bible and Western Culture, RELG 207 The Study of World Religions 1, RELG 204 Judaism, Christianity & Islam, RELG 210 Jesus of Nazareth, and RELG 334 Christian Thought and Culture.

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 (51 credits)

RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 210	(3)	Jesus of Nazareth
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 321	(3)	Western Intellectual Tradition
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 420*	(3)	Canadian Church History
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective

\* RELG 420 may be replaced with another 3-credit course if recommended by the program adviser.

### Complementary Courses (69 credits)

3 credits in History and Classical Studies at the 200 or 300 level.

3 credits in Catholic Studies, Jewish Studies, or Islamic Studies at the 200 or 300 level.

0-6 credits in languages (ancient or modern) at the 100 level (if necessary).

6 credits of literature (other than biblical), Art History, or Music at the 200 or 300 level.

Note: All courses at the 100 and 300 level require School approval.

3 credits from:

PHIL 200	(3)	Introduction to Philosophy 1
PHIL 201	(3)	Introduction to Philosophy 2

3 credits selected from the following list (or another approved course in ethics):

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 240	(3)	Political Philosophy 1
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 376	(3)	Religious Ethics

3 credits selected from the follo

15 credits to be chosen from among the 300- or 400-level courses offered in the B.Th. or B.A. Religious Studies programs in consultation with the B.Th. program adviser, of which 6 credits may be chosen from the following:

RELG 280D1	(3)	Elementary New Testament Greek
RELG 280D2	(3)	Elementary New Testament Greek

3 credits in a religious tradition\* other than Christianity, such as:

ISLA 380	(3)	Islamic Philosophy and Theology
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions

\*Students who have previously completed a university-level course in world religions may replace this with 3 credits of complementary courses.

### Old Testament

3 credits from:

RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets

### New Testament

3 credits from:

RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament

### Christian Theology

3 credits from:

RELG 330	(3)	Reformed Theology
RELG 336	(3)	Contemporary Theological Issues
RELG 399	(3)	Christian Spirituality
RELG 423	(3)	Reformation Thought

### Option 1 or Option 2

Option 1: 15-21 credits to be determined in consultation with the B.Th. program adviser.

OR

Option 2: An Arts or Science 18-credit minor and an additional 3 credits.

### 3.10.34.18 Bachelor of Theology (B.Th.) - Honours Religious Studies (120 credits)

Students who have achieved a CGPA of 3.30 at the end of B.Th. Year 2 (U2) may apply to the B.Th. Committee for permission to enter the Honours program. They will be required to complete the normal requirements for the B.Th. degree and the honours courses RELG 494 and RELG 495 in the B.Th. Year 3 (U3) with a grade of B or better.

### Year 3 (U3) - Required Courses - Honours (6 credits)

RELG 494	(3)	B.Th. Honours Seminar 1
RELG 495	(3)	B.Th. Honours Seminar 2

### **3.10.35 Science for Arts Students**

#### **3.10.35.1 Location**

Prof. Louis Lefebvre  
Stew

### **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 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
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

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
	(3)	Biochemistry of Macromolecules

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212	(4)	Introductory Organic Chemistry 1

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

### Computer Science

Please see calendar listing for Bachelor of Arts Minor Concentrations in Computer Science.

### 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*0nces 1	(3)	Understanding Planet Earth
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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
EPSC 334	(3)	Invertebrate Paleontology
EPSC 425	(3)	Sediments to Sequences

\* Note: Students select either EPSC 201 or EPSC 233.

### Geography

(Students in any Minor or Major concentration or Honours program in Geography cannot choose this disciplinary area.)

Geography advisers recommend including some preparation in chemistry, statistics, and calculus for study in this area even if formal prerequisites are not in place.

Students select 15 credits from the following courses and their associated prerequisites:

GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
GEOG 372	(3)	Running Water Environments

### Mathematics and Statistics

(Students in any Minor or Major concentration or Honours program in Mathematics and Statistics cannot choose this disciplinary area.)

Prerequisites which cannot be counted toward the Minor: MATH 133, MATH 140, and MATH 141 or equivalents.

Suggested courses:

MATH 203	(3)	Principles of Statistics 1
MATH 204	(3)	Principles of Statistics 2
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 338	(3)	History and Philosophy of Mathematics

### Microbiology and Immunology

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and 120 or their equivalents.

Note: CHEM 212 or its equivalent is prerequisite, or corequisite, to these courses.

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
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.

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And, if credits permit, one or more of these intermediate-level Physiology courses:

### 3.10.36.3 Social Studies of Medicine Faculty

#### Chair

Annamarie Adams

#### Emeritus Professor

Margaret Lock; B.Sc.(Leeds), M.A., Ph.D.(Calif., Berk.) (*Marjorie Bronfman Professor in Social Studies in Medicine*)

#### Professors

Annamarie 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)

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) (*Canada Research Chair in the Social History of Medicine*)

Faith E. Wallis; M.A., M.L.S.(McG.), Ph.D.(Tor.)

George Weisz; M.A., Ph.D.(SUNY), Dr. 3rd Cy.(Paris V) (*Cotton-Hannah Professor of the History of Medicine*)

Allan Young; M.A.(Wash.), B.A., Ph.D.(Penn.) (*Marjorie Bronfman Professor in Social Studies in Medicine*)

#### Associate Professors

Jennifer Fishman; M.A.(Calif., Irvine), Ph.D.(Calif.-San Francisco)

Nicholas King; M.A., Ph.D.(Harv.)

### 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 & 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 567D1HIST 567D1	(3)	Seminar: Medieval Medicine

**Anthr**

For Graduates intending to practice social work in Quebec, please note that Quebec law requires candidates seeking admission to the professional social work order of Quebec (OTSTCFQ) to demonstrate a working knowledge of the French language. For more information, please see our [Working in Quebec](#) page.

Applications are encouraged from persons of diverse backgrounds, including Aboriginal Peoples, members of minority groups, and persons with low income.

The objectives of the B.S.W. program are to provide an academic environment where students can develop:

- integrated social work knowledge pertaining to history, theory, research, practice modalities, and policies that influence the delivery of health and social services;
- professional skills in well-established methods of practice with individuals, families, and groups in communities and organizations;
- understanding of the factors, processes, and forces that form and govern social policy in Canada, and the skills to work toward policy improvement and change;
- awareness of various dimensions of diversity and how they intersect in an increasingly heterogeneous society;
- a sense of identity as an intervening agent in social work practice and a sense of responsibility that accompanies acts of intervention; and
- a commitment to advancing knowledge and improving skills within ethical social work practice that are the prerequisites for more advanced studies at the graduate level.

### **3.10.37.3 Bachelor of Social Work (B.S.W.) – Three-Year Program – Admission**

The School of Social Work has a limited number of field placements for students who are not functionally bilingual. While not a prerequisite for admission, students are expected to be functional in French (comprehension, spoken and written) for the field placement components of the BSW program and for securing admission to the OTSTCFQ.

For detailed admission information for the B.S.W., see [www.mcgill.ca/socialwork/prospective/bsw/admissions](http://www.mcgill.ca/socialwork/prospective/bsw/admissions).

### **3.10.37.4 Social Work Faculty**

#### **Director**

Nico Trocmé

#### **Professors**

Cindy Blackstock; B.A.(Br. Col.), M.B.A.(McG.), Ph.D.(Tor.)

Myriam Denov; B.A.(Tor.), B.S.W.(McG.), M.A.(Ott.), Ph.D.(Camb.)

Michael MacKenzie; B.Sc., M.Sc., M.S.W.(UWO), Ph.D.(W

### **Assistant Professors**

Katherine Maurer; B.A.(Minn.), M.S.W.(Hunter), Ph.D.(NYU)

Pam Orzeck; B.A., M.S.W.(McG.), PhD.(Laval)

Marjorie Rabiau; B.Sc.(Alta.), Ph.D.(McG.)

### **Coordinator of Field Education**

Francine Granner; B.S.W., M.S.W.(McG.)

### **Associate Coordinator of Field Education**

April Hayward; B.S.W., M.S.W.(McG.)

Marilyn Rowell; B.S.W.(McG.)

### **3.10.37.5 Bachelor of Social Work (B.S.W.) - Social Work (Three-Year Program) (90 credits)**

#### **Field Practicum**

Students in the three-year B.S.W. program complete a field placement during their second and third years, two dayoheee-year B.S90 e335.065 555.983 Tm(ogram615.26

SWRK 421	(3)	Advanced Field Practice 2
SWRK 422	(3)	Integrative Seminar 2
SWRK 423	(3)	Social Work Research
SWRK 424	(3)	Mental Health and Illness
SWRK 428	(3)	Social Policy and Administration
SWRK 445	(3)	First Peoples and Social Work
SWRK 525	(3)	Critical Thought and Ethics in Social Work

### Complementary Courses (21 credits)

Complementary courses comprise 21 credits of the program. These are selected with the following specifications.

6 credits of Social Work (SWRK) courses.

15 credits of social science courses taken in Anthropology (ANTH), Economics (ECON), Gender, Sexuality, Feminist & Social Justice Studies (GSFS), Geography (GEOG), History (HIST), Linguistics (LING), Political Science (POLI), Psychology (PSYC), or Sociology (SOCI) or humanities courses taken in Art History & Communication Studies (ARTH), English (ENGL), Gender, Sexuality, Feminist & Social Justice Studies (GSFS), Music (MUAR), Philosophy (PHIL), or Religious Studies (RELG) or literature and civilization courses taken in Classics (CLAS), East Asian Studies (EAST), French Studies (FREN), German Studies (GERM), Hispanic Studies (HISP), Islamic Studies (ISLA), Jewish Studies (JWST), Russian Studies (RUSS), Spanish Studies (HISP), or Canadian Studies (CANS), Indigenous Studies (INDG), African Studies (AFRI), International Development Studies (INTD), or Latin American and Caribbean Studies (LACS). At least 6 of these credits must be taken at the 300 level or higher or at least 9 of these credits must be taken within one department.

Please note from "literature and civilization" programs and departments, students are permitted to select any course except any language courses to fulfill the 15 complementary credits. Language courses can be taken as electives.

### Elective Courses (6 credits)

6 credits of electives may be chosen from a discipline other than Social Work.

Only in an elective course will the grade of D be counted for credit toward the program.

Satisfactory/Unsatisfactory (S/U) Option Policy

Please note, according to University regulations, the S/U option can only be selected for an elective course. See "Registration" and "Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option".

## 3.10.38 Sociology (SOCI)

### 3.10.38.1 Location

Stephen Leacock Building, Room 712  
 855 Sherbrooke Street West  
 Montreal QC H3A 2T7  
 Undergraduate Program Information: 514-398-6868  
 Fax: 514-398-7476  
 Email: [giovanna.terresi@mcgill.ca](mailto:giovanna.terresi@mcgill.ca)  
 Website: [www.mcgill.ca/sociology](http://www.mcgill.ca/sociology)

### 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 available at [www.mcgill.ca/sociology/undergrad/advising](http://www.mcgill.ca/sociology/undergrad/advising).



**3.10.38.3 Orientation Session for New Students**

The Sociology Department Orientation Session will be held in late August. For more information, please refer to [www.mcgill.ca/sociology/undergrad](http://www.mcgill.ca/sociology/undergrad).

**3.10.38.4 Sociology Faculty****Chair**

Matthew Lange

**Undergraduate Program Director**

Eran Shor

**Graduate Program Director**

Jason Carmichael

**Professors**

Shelley Clark; B.A.(Virg.), M.A., Ph.D.(Princ.) (*James McGill Professor*)

John A. Hall; B.A.(Oxf.), M.A.(Penn. St.), Ph.D.(LSE) (*James McGill Professor*)

Matthew Lange; B.A.(Carleton Coll.), M.A., Ph.D.(Brown)

Céline Le Bourdais; B.Sc., M.Sc.(Montr.), Ph.D.(Brown) (*Distinguished James McGill Professor*)

Eran Shor; B.A., M.A.(Haifa), M.A., Ph.D.(Stony Brook) (*William Dawson Scholar*)

Michael Smith; B.A.(Leic.), M.A., Ph.D.(Brown) (*James McGill Professor*)

Axel van den Berg; Kand.Doc.(Amster.), Ph.D.(McG.)

Morton Weinfeld; B.A.(McG.), Ed.M., Ph.D.(Harv.) (*Chair, Canadian Ethnic Studies*)

**Associate Professors**

Sarah Brauner-Otto; B.A.(Bates Coll.), M.S.W., Ph.D.(Mich.)

Jason Carmichael; B.A.(Ariz. St.), M.A., Ph.D.(Ohio St.)

Aniruddha (Bobby) Das; B.A.(Delhi), M.A.(Delaware), Ph.D.(Chic.)

Amélie Quesnel-Vallée; B.S., M.S.(Montr.), M.S., Ph.D.(Duke) (*Canada Research Chair in Policies and Health Inequalities*)

Zoua Vang; B.A.(Penn.), M.A., Ph.D.(Harv.)

Elaine Weiner; B.A.(Grinnell Coll.), M.A.(Flor.), Ph.D.(Mich.)

**Assistant Professors**

Jan Doering; M.A., Ph.D.(Chic.)

Barry Eidlin; B.A.(Oberlin), M.A., Ph.D.(Calif., Berk.)

Jennifer Elrick; B.A.(Qu.), M.A.(Guelph & Bochum), Ph.D.(Tor.)

Peter McMahan; B.A.(Reed), M.P.P., Ph.D.(Chic.)

Poulami Roychowdhury; B.A.(Swarth.), M.A., Ph.D.(NYU)

Thomas Soehl; M.A.(CUNY), M.P.A.(Harv.), M.A., Ph.D.(Calif.-LA) (*Canada Research Chair in International Migration*)

**Associate Members**

Alberto Cambrosio (*Social Studies of Medicine*)

Jennifer Fishman (*Social Studies of Medicine – Biomedical Ethics Unit*)

Matissa Hollister (*Faculty of Management*)

Anthony Masi (*Faculty of Management*)

Robert E. Whitley (*Psychiatry*)



SOCI 322	(3)	Sociology of Literature
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
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 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 & Citizenship
SOCI 424	(3)	Networks and Social Structures
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 483)	(3)	Emerging Democratic States

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 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & 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

Revision, May 2019. End of revision.

**3.10.38.6 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)**

Revision, May 2019. Start of revision.

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 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

(3) Medicine and Social Sociology and Social Psychiatry

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 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & 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

**Revision, May 2019. End of revision.**

### **3.10.38.7 Bachelor of Arts (B.A.) - Honours Sociology (51 credits)**

**Revision, May 2019. Start of revision.**

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 3.40 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

### **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.

Graduate Seminar:

The graduate seminar listed below is open to final-year Honours students with adequate preparation.

SOCI 652                      (3)                      Current Sociological Theory

**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 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 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 & Citizenship
SOCI 424	(3)	Networks and Social Structures
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
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 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification

SOCI 512	(3)	Ethnicity & 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

Revision, May 2019. End of revision.

**Bachelor of Arts (B.A.)517.681 Tm(T)Tat07)**

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
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 388	(3)	Crime
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 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 & Citizenship
SOCI 424	(3)	Networks and Social Structures
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 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & 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

### **3.10.39 World Islamic and Middle East Studies (ISLA)**

#### **3.10.39.1 Location**

Morrice Hall, Room 319  
3485 McTavish Street  
Montreal QC H3A 0E1  
Telephone: 514-398-6077  
Fax: 514-398-6731  
Email: [info.islamics@mcgill.ca](mailto:info.islamics@mcgill.ca)  
Website: [www.mcgill.ca/islamicstudies](http://www.mcgill.ca/islamicstudies)

#### **3.10.39.2 About World Islamic and Middle East Studies**

The undergraduate programs in World Islamic and Middle East Studies offer students language-based interdisciplinary training about the Islamic world. Combining humanities and social-science approaches, the programs introduce students to the textual traditions and social life of Muslims—and the non-Muslims interacting with them—in different times and places, including, but not limited to, the Middle East.

Students in the programs 7 ernof

**Assistant Professors**

Aslıhan Gürbüzel; B.A., md6.a146c.9216 0.8431 Y/F5 8.1 Tfr3/F52Aslıhan G

ISLA 546 (3) Advanced Persian 2

### **3.10.39.6 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**

18 credits of Turkish language (3 levels) from the list below.

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

### **3.10.39.7 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**

18 credits of Urdu language (3 levels) from the list below.

ISLA 551D1	(3)	Introductory Urdu-Hindi
ISLA 551D2	(3)	Introductory Urdu-Hindi
ISLA 552D1	(3)	Intermediate Urdu-Hindi
ISLA 552D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2
ISLA 555	(3)	Urdu Poetry

### **3.10.39.8 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 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/>.

#### **Complementar**

**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 & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

6 credits at any level, but no more than 6 credits overall at the 100/200 level. Students might fulfil these credits by taking complementary courses from other departments listed below.

**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 & 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

### **3.10.39.9 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;

ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

**Urdu**

ISLA 551D1	(3)	Introductory Urdu-Hindi
ISLA 551D2	(3)	Introductory Urdu-Hindi
ISLA 552D1	(3)	Intermediate Urdu-Hindi
		Intermediate Urdu-Hindi

ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
	(3)	Tales of Wonder-Islamic World

POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
RELG 204	(3)	Judaism, Christianity and Islam
RELG 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran & Interpretations
RELG 573	(3)	Religions in Global Society

### 3.10.39.10 Bachelor of Arts (B.A.) - Honours World Islamic & Middle East Studies (60 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/>.

Honours students must maintain a program GPA of 3.30 in their World Islamic and Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

#### Required Courses (6 credits)

ISLA 495	(3)	World Islamic and Middle East Studies Research Seminar
ISLA 496	(3)	Independent Reading and Research

#### Complementary Courses (54 credits)

54 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

18-21 credits (3 levels) in one language: Arabic, Persian, Turkish, or Urdu (lists below).

33-36 credits (33 if Introductory Arabic has been chosen), distributed as follows:

3 credits of 100-/200-level non-language ISLA courses;

12 credits of 300-level non-language ISLA courses;

9 credits of 400-/500-level non-language ISLA courses;

9-12 credits at any level, including more language courses, but no more than 9 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 (18-21 credits)

#### Arabic

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

#### Persian

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian

ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

### Turkish

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

### Urdu

ISLA 551D1	(3)	Introductory Urdu-Hindi
ISLA 551D2	(3)	Introductory Urdu-Hindi
ISLA 552D1	(3)	Intermediate Urdu-Hindi
ISLA 552D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

### 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

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

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JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4
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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran & Interpretations
RELG 573	(3)	Religions in Global Society

### **3.10.39.11 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, 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/>.

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).

Joint Honours students must maintain a program GPA of 3.30 in their World Islamic & Middle East Studies courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

#### **Required Course (3 credits)**

ISLA 495	(3)	World Islamic and Middle East Studies Research Seminar
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#### **Complementary Courses (33 credits)**

33 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu (lists below). 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.

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**

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic



ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

**Persian**

ISLA 541D1	(3)	Introductory Persian
	(3)	Introductory Persian

**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 & 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
		Modern Iran: Anthlp4EPoetiEPoetiEPoetIv7t 1918-1945

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 & 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 Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4
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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran & Interpretations
RELG 573	(3)	Religions in Global Society

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## 4 Bachelor of Arts and Science

### 4.1 About the Faculties

The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by Arts and one offered by Science. The B.A. & Sc. is intended for students with well-defined interdisciplinary interests, and is not meant as a "compromise" between a B.A. and a B.Sc. degree. If you are more interested in Arts, but would like to study some Science, you can do so within the B.A. degree. Similarly, if you are more interested in Science, but would like to study some Arts, you can do so within the B.Sc. degree.

To learn more about the Faculty of Arts, see [Faculty of Arts](#) > [The Faculty](#) > [section 3.1: About the Faculty of Arts](#). To learn more about the Faculty of Science, see [Faculty of Science](#) > [The Faculty](#) > [section 11.1: About the Faculty of Science](#).

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## 4.2 Programs and Teaching in Arts and in Science

Programs and teaching in Arts are described in [Faculty of Arts > The Faculty > section 3.3: Programs and Teaching in Arts](#). Those in Science are described in [Faculty of Science > The Faculty > section 11.3: Programs and Teaching in Science](#). The two faculties jointly offer the B.A. & Sc., so students pursuing that degree are at home in both Arts and Science.

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If 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.

#### **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 interf

program must also complete an approved minor concentration or a minor in the Faculties of Arts or of Science. You must complete at least 21 credits in the 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 [section 4.9.3: Honours Programs](#) for a list of available programs.

To choose the Honours option, you must meet the GPA/CGPA requirements set out in [University Regulations and Resources](#) > [Undergraduate](#) > [Graduation](#) > [Graduation Honours](#) > [section 1.9.3.4: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#).

#### **4.5.4.3 Joint Honours Program**

If you want to study at the honours level in two disciplines, you can combine a joint honours program component from an Arts discipline with one from a Science discipline; see [section 4.9.4: Joint Honours Programs](#) for a list of available programs. Each joint honours component consists of a maximum of 36–38 required and complementary credits (not including program prerequisites). In cases where a minimum of 24 credits are in courses normally restricted to Honours students, the total of required and complementary credits may be as few as 30.

To choose the Joint Honours option, you must meet the GPA/CGPA requirements set out in [University Regulations and Resources](#) > [Undergraduate](#) > [Graduation](#) > [Graduation Honours](#) > [section 1.9.3.4: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#).

#### **4.5.4.4 Interfaculty Program**

An interfaculty program is an approved selection of courses constituting a concentration in an intellectually coherent and interfaculty field of studies. These courses must include approved selections from the Faculties of Arts and of Science and possibly other faculties. See [section 4.9.5: Interfaculty Programs](#) for a list of approv

- 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, MA



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## 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 f

## 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, the choice of Science component is restricted to either Math or Psychology. However, there is a great range of choices for the Arts component.

To choose the Joint Honours option, you must meet the GPA/CGPA requirements set out in [University Regulations and Resources > Undergraduate > Graduation > Graduation Honours > section 1.9.3.4: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#).

## Honours

There are three B.A. & Sc. Honours programs. The Honours programs in **Environment; Cognitive Science;** and **Sustainability, Science and Society** are similar to their relevant Interfaculty programs, but each has additional GPA requirements and an additional 6-credit required research course. If you are completing an honours program, you must also complete a minor concentration or program, and a required integrative course (BASC 201, 3 credits). You must complete at least 21 credits in the Faculty of Arts and at least 21 credits in the Faculty of Science as part of your honours program and your minor concentration or program.

To choose the Honours option, you must meet the GPA/CGPA requirements set out in [University Regulations and Resources > Undergraduate > Graduation > Graduation Honours > section 1.9.3.4: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#).

### 4.6.2 Preparation for Graduate School

Any choice of undergraduate degree and program constrains options for graduate school. The B.A. & Sc. provides good preparation for graduate degrees in integrated disciplines such as Cognitive or Environmental Science as well as in the new Sustainability, Science and Society program. Depending on the Arts or Science specific program you want to enter in graduate school, the B.A. & Sc. may or may not be adequate preparation. If you intend to pursue an Arts or Science specific program at the graduate level, you should consult academic advisers in that discipline at McGill and at universities where you intend to apply in order to find out whether the B.A. & Sc. will prepare you adequately. If you are considering continuing on in a specific Science graduate program, you should consult academic advisers in that discipline at McGill and at universities where you intend to apply in order to find out whether the B.A. & Sc. will prepare you adequately. If you are considering continuing on in a specific Science graduate program, you should consult academic advisers in that discipline at McGill and at universities where you intend to apply in order to find out whether the B.A. & Sc. will prepare you adequately.

## 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** – *section 4.10.4.2: Bachelor of Arts (B.A.) - Minor Concentration*

## Faculty of Arts Minor Concentrations or Minors

**Latin American & Caribbean Studies** – *section 4.10.22.7: Bachelor of Arts (B.A.) - Minor Concentration Latin American & Caribbean Studies (18 credits)*

**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)*

**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 credits)*

**South Asian Studies** – *section 3.10.19.12: Bachelor of Arts (B.A.) - Minor Concentration South Asian Studies (18 credits)*

**World Cinemas** – *section 4.10.21.4: Bachelor of Arts (B.A.) - Minor Concentration World Cinemas (18 credits)*

**World Islamic and Middle East Studies** – *section 4.10.36.1: Bachelor of Arts (B.A.) - Minor Concentration Arabic Language (18 credits), section 4.10.36.2: Bachelor of Arts (B.A.) - Minor Concentration Persian Language (18 credits), section 4.10.36.3: Bachelor of Arts (B.A.) - Minor Concentration Turkish Language (18 credits), section 4.10.36.4: Bachelor of Arts (B.A.) - Minor Concentration Urdu Language*

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### Faculty of Science Major Concentrations

**Geography – Physical Geography Option** – [section 4.10.18.7: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Geography - Physical Geography \(36 credits\)](#)

**Mathematics** – [section 4.10.27.3: Bachelor of Arts \(B.A.\) - Major Concentration Mathematics \(36 credits\)](#)

**Physics** – [section 4.10.23.7: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Physics \(36 credits\)](#)

**Psychology** – [section 4.10.31.3: Bachelor of Arts \(B.A.\) - Major Concentration Psychology \(36 credits\)](#)

**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 [McGill 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 al

#### Faculty of Arts Joint Honours Programs

**Langue et littérature françaises – Études et pratiques littéraires** – [section 4.10.16.6: Baccalauréat ès Arts \(B.A.\) - Double Spécialisation Langue & littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)

**Linguistics** – [section 4.10.26.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Linguistics \(36 crédits\)](#)

**Philosophy** – [section 4.10.28.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Philosophy \(36 crédits\)](#)

**Political Science** – [section 4.10.30.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Political Science \(36 crédits\)](#)

**Religious Studies - Asian Religions** – [section 4.10.32.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Asian Religions \(36 crédits\)](#)

**Religious Studies - Western Religions** – [section 4.10.32.5: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Western Religions \(36 crédits\)](#)

**Russian** – [section 4.10.25.15: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 crédits\)](#)

**Sociology** – [section 4.10.34.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Sociology \(36 crédits\)](#)

**World Islamic and Middle East Studies** – [section 4.10.36.7: Bachelor of Arts \(B.A.\) - Joint Honours Component World Islamic & Middle East Studies \(36 crédits\)](#)

#### 4.9.4.2 Faculty of Science

There are currently only two Science Joint Honours components available to B.A. & Sc. students, which are listed here.

#### Faculty of Science Joint Honours Programs

**Mathematics** – [section 4.10.27.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Mathematics \(36 crédits\)](#)

**Psychology** – [section 4.10.31.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Psychology \(36 crédits\)](#)

#### 4.9.5 Interfaculty Programs

The Interfaculty programs available to B.A. & Sc. students are listed here.

#### Interfaculty programs open to B.A. & Sc. students

**Cognitive Science** – [section 4.10.9.4: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program Cognitive Science \(54 crédits\)](#)

**Environment** – see [McGill School of Environment > Undergraduate > Browse Academic Programs > Bachelor of Arts and Science \(B.A. & Sc.\) – Interfaculty Programs > section 7.7.3.1: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program Environment \(54 crédits\)](#)

**Sustainability, Science and Society** – [section 4.10.35.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability, Science and Society \(54 crédits\)](#)

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### 4.10 Browse Academic Units & Programs

The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by Arts and one offered by Science. The overall objective is to provide a broad, liberal education spanning substantive areas in the two faculties so that students can learn diverse content and varied methods of inquiry.

#### 4.10.1 Programs in Arts or in Science

B.A. & Sc. programs include:

- B.A. & Sc. **Arts** programs
- B.A. & Sc. **Science**

#### 4.10.2 B.A. & Sc. Freshman Program

Students who need to complete 97–120 credits to fulfil their degree requirements are admitted to the Freshman Program. Students with specific career goals should consult an academic adviser about their choice of program within the B.A. & Sc. However, students intending to pursue further studies following the B.A. & Sc. should refer to the admissions requirements of particular programs for the appropriate prerequisite courses.

In particular, students should note the following:

- The minimum freshman science requirements in the B.A. & Sc. may not satisfy the introductory science requirements of all medical/dental schools;
- 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 Program at [www.mcgill.ca/science/student/newstudents](http://www.mcgill.ca/science/student/newstudents).

#### **Bachelor of Arts and Science (B.A.**



PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

At most one of a Second Physics:

Note: PHYS 101 is a prerequisite for PHYS 102; and PHYS 131 is a prerequisite for PHYS 142.

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**

- 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 Anthropology (ANTH) courses.

#### Undergraduate Level

18 credits of additional undergraduate-level Anthropology courses of which no more than 6 credits may be at the 200 level.

#### 4.10.3.3 Bachelor of Arts (B.A.) - Joint Honours Component Anthropology (36 credits)

Students interested in Joint Honours should consult an adviser in the other department for specific course requirements. A form will be supplied by the Anthropology Department to keep track of courses required by both departments for the programs selected.

Students who wish to study at the Honours level in two disciplines can combine the Joint Honours Program component in Anthropology with one in any other Arts discipline.

The Joint Honours thesis topic should be arranged by consultation with an adviser in Anthropology and the other discipline, and supervisors should be appointed in each department who will work together to guide the student.

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 Course (3 credits)

The Joint Honours thesis should be determined in consultation with advisers from both Joint Honours components programs. Normally, the thesis is 6 credits of coursework with 3 credits applying to each Joint Honours component.

ANTH 491	(3)	Joint Honours Thesis
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#### Complementary Courses (33 credits)

##### 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
ANTH 358	(3)	The Process of Anthropological Research
ANTH 359	(3)	History of Archaeological Theory

#### 400/500 Level

A minimum of 6 credits of Anthropology (ANTH) courses at the 400 or 500 level (maximum of one 3-credit Special Topic course at the 400 level).

#### 4.10.4 Art History and Communication Studies (ARTH & COMS)

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#### **4.10.4.1 Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)**

This program may be expanded to the Major Concentration Art History.

##### **Required Course (3 credits)**

ARTH 305                      (3)                      Methods in Art History

##### **Complementary Courses (15 credits)**

Students select their complementary courses as follows:

3 credits in Art History at the 200 level.

12 credits in Art History at the 300 level or above, selected in consultation with the Departmental Adviser.

Note: Courses in studio practice cannot be counted towards the Minor concentration.

#### **4.10.4.2 Bachelor of Arts (B.A.) - Minor Concentration Communication Studies (18 credits)**

The Minor Concentration Communication Studies provides undergraduate students with a critical understanding of the role that communications media and communication technologies play in a society. It offers students intellectually challenging and innovative instruction in key traditions of Communications and Media Studies and new theoretical and methodological practices being developed in the field. The courses included in the program focus on issues of the relationship between communication, democracy and urban life, the social life of communication technologies, the historical development and transformation4.10.4.1

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)

##### Required Course (3 credits)

ARTH 305	(3)	Methods in Art History
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##### Complementary Courses (33 credits)

33 complementary courses 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
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
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 319	(3)	Introduction to Manga
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 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

**Complementary Courses (27 credits)**

Students select their 27 complementary courses chosen from among departmental course offerings as follows:

-A maximum of 9 credits may be at the 200 lev(3)

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

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
EAST 303	(3)	Current Topics: Chinese Studies 1
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

#### 4.10.5 Atmospheric and Oceanic Sciences (ATOC)

The Department of Atmospheric and Oceanic Sciences, the programs, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#).

##### 4.10.5.1 Bachelor of Science (B.Sc.) - Minor Atmospheric Science (18 credits)

This Minor may be taken in conjunction with any program in the Faculty of Science.

##### Required Courses (3 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
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##### Complementary Courses (15 credits)

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 219*	(3)	Introduction to Atmospheric Chemistry

\* Note: Students may select ATOC 219 or CHEM 219 but not both.



## Complementary Course

9-12 credits selected from:

ATOC 309	(3)	Weather Radars and Satellites
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
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
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 548	(3)	Mesoscale Meteorology.
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics

### 4.10.6 Biology (BIOL)

The Department of Biology, the discipline, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.5: Biology \(BIOL\)](#).

The minimum freshman science requirements in the B.A. & Sc. may not satisfy the introductory science requirements of all medical/dental schools. Please see your departmental adviser for more information.

#### 4.10.6.1 Bachelor of Arts and Science (B.A. & Sc.) - Minor Concentration Biology - Cell/Molecular (19 credits)

The Minor Concentration Biology - Cell/Molecular, is restricted to students in the B.A. & Sc. It is a sequence of courses designed to yield a broad introduction to cell/molecular biology.

Advising Note: Students interested in a Biology minor concentration must choose either the Cell/Molecular option or the Organismal option, but may not take both. Students interested in a more in-depth program in Biology should consider the Major concentration.

Students may complete this program with a minimum of 18 credits or a maximum of 19 credits.

#### **4.10.6.2 Bachelor of Arts and Science (B.A. & Sc.) - Minor Concentration Biology - Organismal (19 credits)**

The Minor Concentration Biology - Organismal, is restricted to students in the B.A. & Sc. It is a sequence of courses designed to yield a broad introduction to organismal biology.

BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 413	(1)	Directed Reading
BIOL 568	(3)	Topics on the Human Genome
BIOL 575	(3)	Human Biochemical Genetics

or other appropriate course at the 300 level or higher with permission of the Biology Adviser.

#### 4.10.6.4 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Biology - Organismal (37 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

Students may complete this program with a minimum of 36 credits or a maximum of 37 credits depending if they have already taken CHEM 212 or its equivalent, and on their choice of complementary courses.

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\* (28 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 3-credit courses from the Complementary Courses list. Regardless of the substitution, students must take at least 36 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 Biology Adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics
CHEM 212**	(4)	Introductory Organic Chemistry 1

#### Complementary Courses (9 credits)

9 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 350	(3)	Insect Biology and Control
BIOL 352	(3)	Dinosaur Biology
BIOL 373	(3)	Biometry
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection

BIOL 441	(3)	Biological Oceanography
BIOL 463	(3)	Mammalian Evolution
BIOL 465	(3)	Conservation Biology

or other appropriate course at the 300 level or higher with permission of the Biology Adviser.

#### 4.10.7 Canadian Studies (CANS)

Canadian Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.21: Institute for the Study of Canada](#).

##### 4.10.7.1 Bachelor of Arts (B.A.) - Minor Concentration Canadian Studies (18 credits)

The Minor program enables students to take courses about Canada outside the areas of their other major or minor concentrations.

This program may be expanded to the Major Concentration Canadian Studies.

##### Required Course (3 credits)

CANS 200	(3)	Introduction to the Study of Canada
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##### Complementary Courses (15 credits)

15 credits selected as specified below.

NOTE: Students may not choose more than 3 credits in disciplines of their other major or minor concentrations.

##### 200 Level

6 credits selected from:

ANTH 222	(3)	Legal Anthropology
ECON 219	(3)	Current Economic Problems: Topics
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
FREN 252	(3)	Littérature québécoise
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

##### Canadian Studies (CANS)

6 credits in interdisciplinary Canadian Studies courses with the subject code CANS.

##### Canadian Studies (Other Departments)

3 credits chosen from the complementary course list at the 300 level or higher. The courses chosen must have relevance to the program.

##### Anthropology

ANTH 222	(3)	Legal Anthropology
ANTH 317	(3)	Prehistory of North America
ANTH 338	(3)	Native Peoples of North America
ANTH 436	(3)	North American Native Peoples

ENGL 228



ENGL 411	(3)	Studies in Canadian Fiction
ENGL 415	(3)	Studies in 20th Century Literature 2
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies
ENGL 527	(3)	Canadian Literature
ENGL 528	(3)	Canadian Literature

### French as a Second Language

FRSL 101	(3)	Beginners French 1
FRSL 102	(3)	Beginners French 2
FRSL 103	(3)	Near Beginners French
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207	(6)	Elementary French 01
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211	(6)	Oral and Written French 1
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(3)	Découvrons Montréal en français
FRSL 302	(3)	Listening Comprehension and Oral Expression 1
FRSL 303	(3)	Listening Comprehension and Oral Expression 2
FRSL 321	(6)	Oral and Written French 2
FRSL 321D1	(3)	Oral and Written French 2
FRSL 321D2	(3)	Oral and Written French 2
FRSL 322	(3)	Oral and Written French 2
FRSL 325	(6)	Oral and Written French 2 - Intensive
FRSL 326	(3)	Découvrons le Québec en français
FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
FRSL 408	(3)	Français oral: Textes et expressions
FRSL 431	(6)	Français fonctionnel avancé
FRSL 431D1	(3)	Français fonctionnel avancé
FRSL 431D2	(3)	Français fonctionnel avancé
FRSL 432	(3)	Français fonctionnel
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

### **French Language and Literature**

FREN 245	(3)	Grammaire normative
FREN 252	(3)	Littérature québécoise
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 336	(3)	Histoire de la langue française
FREN 372	(3)	Littérature québécoise 1
FREN 382	(3)	Littérature québécoise 2
FREN 480	(3)	Littérature québécoise contemporaine

### **Geography**

GEOG 217	(3)	Cities in the Modern World
GEOG 272	(3)	Earth's Changing Surface
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 502	(3)	Geography of Northern Development

### **History**

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303	(3)	History of Quebec
HIST 312	(3)	History of Consumption in Canada
HIST 333	(3)	Indigenous Peoples and French
HIST 334	(3)	History of New France
HIST 335	(3)	Science and Medicine in Canada
HIST 342	(3)	Canada and the World
HIST 343	(3)	Women in Post-Confederation Canada
HIST 353	(3)	History of Montreal
	(3)	Cultural Diversity in Canada

HIST 397	(3)	Canada: Ethnicity, Migration
HIST 403	(3)	History of Quebec Institutions
HIST 408	(3)	Colonialism and Native Peoples
HIST 414	(3)	Canadian Cultural History
HIST 423	(3)	Topics: Migration and Ethnicity
HIST 434	(3)	British North America 1760-1867



POLI 427	(3)	Selected Topics: Canadian Politics
POLI 431	(3)	Nations and States/Developed World
POLI 478	(3)	The Canadian Constitution

**Québec, Études sur le**

QCST 300	(3)	Quebec Culture and Society
QCST 336	(6)	Quebec Studies Summer Seminar
QCST 440	(3)	Contemporary Issues in Quebec

**Religious Studies**

RELG 420	(3)	Canadian Church History
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**Sociology**

SOCI 210	(3)	Sociological Perspectives
SOCI 222	(3)	Urban Sociology

ENGL 440 (3) First Nations and Inuit Literature and Media

**Geography**

GEOG 301 (3) Geography of Nunavut

**History**

HIST 202 (3) Survey: Canada to 1867  
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

**Interdisciplinary Field Course**

IDFC 500 (3) Indigenous Field Studies

**Law**

CMPL 500 (3) Aboriginal Peoples and the Law  
Aboriginal Peoples and the Law

**Complementary Courses**

6-7 credits \*\*

CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 319	(3)	Chemistry of Energy, Storage and Utilization
CHEM 334	(3)	Advanced Materials
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 462	(3)	Green Chemistry

\*\* Any level 300-500 CHEM course can be substituted for courses within this list.

**4.10.8.2 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Chemistry (36 credits)**

The Major Concentration 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.

The Major Concentration Chemistry, 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.

**Required Courses\* (21 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 equal to or exceeding their credit value. Regardless of the substitution, students must take at least 36 credits in this program.

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 281	(3)	Inorganic Chemistry 1

**Complementary Courses (15 credits)**

15 credits selected from:

CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 332	(3)	Biological Chemistry
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	Instrumental Analysis 1
CHEM 381	(3)	Inorganic Chemistry 2

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

Website: [www.mcgill.ca/cogsci](http://www.mcgill.ca/cogsci)

Interdisciplinary Programs Adviser: Ryan B Glma;





ANTH 440	(3)	Cognitive Anthropology
MUMT 250	(3)	Music Perception and Cognition
PSYC 204	(3)	Introduction to Psychological Statistics

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 514*	(3)	Neurobiology Learning and Memory
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 Learning and 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
<b>Research Course</b>		
COGS 401	(6)	Research Cognitive Science 1



#### 4.10.9.4 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Cognitive Science (54 credits)

The Interfaculty Program Cognitive Science, which is restricted to students in the B.A. & Sc., is designed to allow students to explore the multidisciplinary study of cognition in humans 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.

Note: B.A. & Sc. students who take interfaculty programs must take at least 21 credits in Arts and 21 credits in Science across their interfaculty program and their minor or minor concentration.

##### Required Course (3 credits)

NSCI 201	(3)	Introduction to Neuroscience 2
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##### Core Complementary Courses (21 credits)

3 credits from the following logic courses:

COMP 230	(3)	Logic and Computability
MATH 318	(3)	Mathematical Logic
PHIL 210	(3)	Introduction to Deductive Logic 1

3 credits from the following statistics courses:

MATH 203	(3)	Principles of Statistics 1
MATH 323	(3)	Probability
PSYC 204	(3)	Introduction to Psychological Statistics

3 credits from the following computer science courses:

COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences
COMP 250	(3)	Introduction to Computer Science

3 credits from the following linguistics courses:

LING 201	(3)	Introduction to Linguistics
LING 210	(3)	Introduction to Speech Science
LING 260	(3)	Meaning in Language

3 credits from the following philosophy courses: v5Tj1 0 0 1 22ples of Statistics 1

PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition

**Complementar**

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
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
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 Learning and 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 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
		Cognitive Neuroscience of

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 Structures 2

Group C:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

Group D:

#### 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 542	(3)	Chemical Oceanography
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 3.10.8: 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 Art
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EAST 250	(3)	Introduction to Asian Media Studies
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: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese 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 & 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)	Topics in Gender and Sexuality in Chinese Cinema
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction 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 & 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

### **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

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### Political Science (POLI)

POLI 349 (3) Foreign Policy: Asia

### Religious Studies (RELG)

RELG 253 (3) Religions of East Asia  
RELG 264 (3) Introductory Tibetan 1  
RELG 265 (3) Introductory Tibetan 2  
RELG 339 (3) Gender & Sexuality in Buddhism  
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: Maxims and Methods  
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

### 4.10.12.2 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 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 Asian Studies (EAST)**

6 credits at the 300 level or above in East Asian Studies (EAST) courses selected from:

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: Chinese Language and Literature 1
EAST 308	(3)	Topics: Chinese 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 & 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)	Topics in Gender and Sexuality in Chinese Cinema
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction 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 & Media

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**

**Revision, May 2019. Start of revision.**

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

**Revision, May 2019. End of revision.**

**Revision, May 2019. Start of revision.**

0-3 credits from the following:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

**Revision, May 2019. End of revision.**

##### **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
		Japanese

EAST 421

EAST 430D1

EAST 430D2

EAST 440D1

EAST 440D2

EAST 530D1

EAST 530D2

EAST 532

Third Level Korea

Third Level Chi

Third Level C

Third Level

Third Lev

Fourth L

Fourth

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EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media & Popular Culture
EAST 377	(3)	Topics: Transnational Cinema Asia
EAST 385	(3)	Global Korea
EAST 389	(3)	Global Science Fiction 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)	Asia(3)Js, Ideogram Japan in EAST Topics: Japanese Cinema



## The Japanese Economy

RELG 451	(3)	Zen: Maxims and Methods
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

#### **4.10.12.5 Bachelor of Arts (B.A.) - Joint Honours Component East Asian Studies (36 credits)**

**Revision, May 2019. Start of revision.**

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 and maintain a minimum program GPA of 3.00.

#### **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)	Japanese
EAST 530D1	(3)	Level Chinese
EAST 530D2	(3)	Level Chinese
EAST 533	(3)	Chinese I

**East Asian Studies (EAST)**

9 credits chosen from the following East Asian Studies courses, at least 3 of which must be 400-level or above

EAST 303	(3)	Contemporary Topics: Chinese Studies
EAST 304	(3)	Contemporary Topics: Chinese Studies
EAST 305	(3)	Contemporary Topics: Japanese Studies
EAST 306	(3)	Contemporary Topics: Japanese Studies
EAST 307	(3)	Chinese Language and Culture

EAST 306EAST 308	(3)	Contemporary Topics: Korean Studies
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
		Critical Approaches to Chinese Literature

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 & 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

Revision, May 2019. End of revision.

#### 4.10.13 Economics (ECON)

The Department of Economics, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.9: Economics \(ECON\)](#).

##### 4.10.13.1 Bachelor of Arts (B.A.) - Minor Concentration Economics (18 credits)

The Minor Concentration in Economics provides a moderate level of specialization in Economics for students who usually are pursuing Major Concentrations or Honours Programs in other fields of study. It does, however, provide an option to switch to or add a Major Concentration in Economics. There is a special Minor for Management students.

#### Program Requirements

##### Complementary Courses (18 credits)

18 credits, of which 6 credits must be from Group A and 12 credits from Group B.

##### Group A

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory

## Group B

Economics courses with course numbers above ECON 208 (excluding ECON 295), at least 6 of which must be at the 300, 400 or 500 level.

Program Notes:

Only one of ECON 208 or ECON 230D1/D2 or ECON 250D1/D2 can be credited to the Economics Minor. Only one of ECON 209 or ECON 330D1/D2 or ECON 352D1/D2 can be credited to the Economics Minor. The combination of ECON 230D1/D2 and ECON 209 is allowed.

## Special Minor in Economics for Management Students

Information on this Minor Concentration and its special restrictions is in the Desautels Faculty of Management section of the eCalendar.

<https://www.mcgill.ca/desautels/programs/bcom/academics/course-information/minors>. Students should consult with the advisers in both the Faculty of Management and the Department of Economics for advice on this minor concentration.

### 4.10.13.2 Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)

The Major Concentration in Economics is a planned sequence of courses designed to permit the student a degree of specialization in economics. It consists of 36 credits in courses approved by the Economics Department. Students wishing to pursue this concentration need to consult the department's rules and regulations at: [www.mcgill.ca/economics/undergraduates/majorminor](http://www.mcgill.ca/economics/undergraduates/majorminor).

All students who wish to begin (or continue) the Major Concentration Economics should see a majors adviser in the Department of Economics in each of their university years. Further information may be obtained from the Department's website, or from any majors adviser; consult the Departmental office for a list of advisers and their advising times.

Students who are registering for the first time with the Department should attend the orientation meeting in August (check the website for details) before seeing an adviser.

A student choosing the Major Concentration Economics must take 36 credits in Economics. The Economics courses will normally be taken at McGill and will be selected from the courses shown below. Major Concentration in Economics students entering University at the U1 year in September should directly proceed to ECON 230D1/ECON 230D2 without taking ECON 208 and ECON 209.

Note: Students who wish to switch from the Major Concentration to Honours Economics must complete all the requirements of the Honours program.

Mathematics: Mastery of high school mathematics is required for all economics courses.

Prerequisites: In general, 200-level courses have no prerequisites and 300-level and 400-level courses have ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2 (or ECON 208 and ECON 209, or MGCR 293 and ECON 295) as prerequisites. In addition, 400-level courses have Calculus 1 (or its equivalent) or a course in mathematical techniques for economic analysis (or its equivalent) as a prerequisite.

### 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" available at: <http://www.mcgill.ca/economics/undergraduates/courses/>.

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory

### Complementary Courses (18 credits)

18 credits in Economics selected from other 200- (with numbers above 209), 300-, 400- and 500-level courses. At least 6 of these credits must be in 400- or 500-level courses. No more than 6 credits may be at the 200 level.

### 4.10.13.3 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 "Overview of Programs Offered" and "Joint Honours Programs" on the Economics Department website.

Joint Honours students should consult an adviser in each of the relevant departments to discuss their course selection and their interdisciplinary research project (if applicable) in each year of their program.

program. If they continue to register in Honours, they will not be allo

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:

ENGL 398	(3)	Psychoanalytic Approaches to Cultural 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

**Revision, May 2019. End of revision.**

**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.

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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
ENGL 459	(3)	Theories of Text and Performance 2
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 Option's Offerings - Additional Courses**

6 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 434	(3)	Independent Theatre Project

### **Drama and Theatre - Courses of Interest - Other Departments**

Permission to count extra-departmental credits must be obtained in advance of taking any course from outside the Department of English. Students are normally permitted to count 3 credits from other departments towards their Drama and Theatre Minor. Permission is obtained with the signature of a Department of English program adviser on the student's 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 credit.

Note:

Other course.

**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 of

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

### Canadian Component

3 credits from a list of courses in Cultural Studies with a Canadian component:

ENGL 393	(3)	Canadian Cinema
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 441	(3)	Special Topics in Canadian Cultural Studies

### 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
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 toward the Major Concentration 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 Psychoanalytic

ENGL 377	(3)	Costuming for the Theatre 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
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:



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 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image

### **Complementary Courses (27 credits)**

27 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. In addition to the Advanced Study requirement, 3 of the remaining 21 Complementary Course credits must be completed at the 500 level. A maximum of 9 of the 27 credits are allowed at the 200 level, none in the final year of the program.

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.

### **Advanced Study**

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

A) 6 credits of honours essay:

ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

B) Two 3-credit 500-level courses selected in consultation with the student's adviser(s).

(In very rare cases, a third alternative may be approved at the discretion of the Joint Honours Adviser, but only when it is formally recommended for the joint subject according to the description of that Joint Honours program found in the Arts section of the eCalendar. For example, Joint Honours with Anthropology allows the option of combining 3 credits of essay work with 3 credits in the joint subject to create a joint essay.)

### **Major Figures**

3 credits from a list of courses on Major Figures in Cultural Studies:

(3)	Shakespeare
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**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
	(3)	Studies in History of Film 1

30 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. In addition to the Advanced Study requirement, 3 of the remaining 24 Complementary Course credits must be completed at the 500 level. A maximum of 9 of the 30 credits are allowed at the 200 level, none in the final year of the program.

**Advanced Study**

6 credits of advanced study, in one of the following two forms A or B, in order of preference:

ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
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 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 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 (12 credits)

ENGL 202	(3)	Departmental Survey of English Literature 1
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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](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](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**

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
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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
ENGL 423	(3)	Studies in 19th Century Literature
ENGL 504	(3)	19th Century

**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 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1

**Modernist**

ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
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
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 323	(3)	20th Century American Poetry
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.

#### 4.10.15 Environment

The McGill School of Environment offers programs open to Bachelor of Arts and Science students; please refer to [McGill School of Environment > Undergraduate](#) for more information.

- Minor: [section 7.7.1: Minor in Environment](#)
- Interfaculty Programs: [section 7.7.3: Bachelor of Arts and Science \(B.A. & Sc.\) – Interfaculty Programs](#)
- Honours: [section 7.7.6: Honours Program in Environment](#)
- Diploma: [section 7.7.8: Diploma in Environment](#)

#### 4.10.16 French Language and Literature (FREN)

Le Département des littératures de langue française, de traduction et de création, les programmes et les cours offerts sont décrits à [Faculty of Arts](#) (Faculté des arts) > [Undergraduate](#) (programmes de premier cycle) > [Browse Academic Units & Programs](#) (programmes d'études) > [section 3.10.16: French Language and Literature \(FREN\)](#) (langue et littérature françaises).

##### 4.10.16.1 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et littérature françaises - Études et pratiques littéraires (18 crédits)

Ce programme offre une introduction aux études littéraires de

**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 1
FREN 311	(3)	Cinéma français 2
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
		Littérature du 20e si



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.

#### **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,

FRSL 332	(3)	Intermediate French: Grammar 01
FRSL 333	(3)	Intermediate French: Grammar 02
FRSL 407	(3)	Compréhension et expression orales
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
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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 et de l'anglais lus et écrits, ainsi 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 imposer de suivre le cours FREN 239 (« Stylistique comparée ») ou son équivalent, le CCTR 219 (« Fundamentals of Comparative Stylistics & Writing (French) »), à la session d'automne de U1.

### **COURS OBLIGATOIRES (6 crédits)**

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 d9L



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 433	(3)	Sémantique et lexicologie
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 fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. L'étude de la littérature s'y fait à travers les différentes pratiques que sont la création, la traduction et l'édition. Tou(te)s les étudiant(e)s sont amené(e)s à suivre aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires ; ils et elles doivent cependant choisir une majorité de cours dans l'un ou l'autre grand domaine. L'inscription au programme présuppose une très bonne connaissance du français lu, écrit et parlé.

##### **COURS OBLIGATOIRES (12 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

##### **COURS COMPLÉMENTAIRES (24 crédits)**

24 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

##### **ORIENTATION A - « Études littéraires »**

de 3 à 9 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre au moins l'un des deux cours suivants :

FREN 245	(3)	Grammaire normative
FREN 356	(3)	Grammaire du texte littéraire.

de 9 à 15 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

de 3 à 9 crédits choisis parmi les cours de la série « Théorie » ;

de 3 à 9 crédits choisis parmi les cours du bloc « Pratiques ».

##### **ORIENTATION B - « Pratiques littéraires »**

de 3 à 6 crédits choisis parmi les cours de la série « Langue française » avec l'obligation de suivre l'un des cours suivants :

FREN 245	(3)	Grammaire normative
FREN 356	(3)	Grammaire du texte littéraire.

au moins 6 crédits choisis parmi les cours du bloc « Études » ;

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 crédits choisis parmi les cours du bloc « Pratiques ».

**I) BLOC : ;**

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 433	(3)	Sémantique et lexicologie
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 Pratiques de l'édition littéraire
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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.

#### **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 à

\*2 L'étudiant(e) doit suivre le FREN 346 ou le CCTR 325.

## **COURS COMPLÉMENT**

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 310	(3)	Cinéma français 1
FREN 311	(3)	Cinéma français 2
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.

#### 4.10.16.6 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 » :

##### ORIENTATION A - Études littéraires

de 6 à 9 crédits choisis parmi les cours de la série « Œuvres et courants » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

au moins 3 crédits choisis parmi les cours de la série « Langue française » ;

au moins 3 crédits choisis parmi les cours de la série « Théorie » ;

au moins 3 crédits choisis parmi les cours du bloc « Pratiques ».

##### ORIENTATION B - Création littéraire

de 6 à 9 crédits choisis parmi les cours de la série « Création » ;

au moins 3 crédits choisis parmi les cours de la série « Langue française » ;

au moins 3 crédits choisis parmi les cours de la série « Théorie » ;

Au moins 3 crédits choisis parmi les séries « Édition » et « Traduction » du bloc « Pratiques ».

##### ORIENTATION C - Traduction littéraire

de 3 à 6 crédits choisis parmi les cours suivants :

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







Le métier d'écrivain-e

Traduction spé



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 & 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 422*	(3)	Topics: American Family History
HIST 424	(3)	Gender, Sexuality & Medicine
HIST 433	(3)	British Queer History
HIST 448	(3)	Women, Gender and Sexuality in the Middle East

Women, W

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 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & 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 (\*) count toward Gender, Sexuality, Feminist, and Social Justice Studies when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

**4.10.17.2 Bachelor of Arts (B.A.) - Major Concentration Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)**

The Major Concentration in Gender, Sexuality

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 303*	(3)	Topics in Canadian Studies 3
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

Theory Sp (MATH) Tj 1 65085143.664426.88 Tm((3))Tj1 0 0 1 70.52 426.88 Tm(COMS 900\*)Tj1 0 0 1 221.949 131..6 TmPo

COMS 942 (3)





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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 and adviser in Women's Studies at a minimum upon FDW3)am.e GSFS am.W3)am.W3)am.W1.5)am.e GSFS 49am.W1.5)am.e GSFS 42am.W1.5)am

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 303*	(3)	Topics in Canadian Studies 3
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 323*	(3)	20th Century American Poetry
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
.68 TmTj1 0 0 125	(3)	Studies in Popular Culture

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 & 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

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 339	(3)	Gender & Sexuality in Buddhism
RELG 356	(3)	Gender & 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
		Contemporary Social Mo

Minor Concentration Geographic Information Systems  
 Minor Concentration Geography  
 Minor Concentration Geography (Urban Studies)  
 Major Concentration Geography  
 Major Concentration Geography (Urban Studies)  
 Joint Honours Component Geography

The following are considered **Science** programs in the B.A. & Sc.:

Minor Geographic Information Systems and Remote Sensing  
 Minor Geography  
 Major Concentration Geography (Physical Geography)

The following is an **Interdisciplinary** program:

*section 4.10.35.3: Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program in Sustainability, Science and Society (54 credits)*

#### **4.10.18.1 Bachelor of Arts (B.A.) - Minor Concentration Geography (18 credits)**

The Minor Concentration Geography is designed to provide students in the Faculty of Arts with an overview of basic elements of human geography at the introductory and advanced level.

This Minor concentration may be expanded into the Major Concentration Geography, but not into the Major Concentration Geography (Urban Systems).

#### **Complementary Courses (18 credits)**

9 credits selected from:

GEOG 201	(3)	Introductory Geo-Information Science
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

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)**

\*\*\* NEW PROGRAM \*\*\*

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 307	(3)	Socioeconomic Applications of GIS
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 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 & 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



**4.10.18.3 Bachelor of Arts (B.A.) - Minor Concentration GIS & Remote Sensing (18 credits)**

**Required Courses (6 credits)**

COMP 202	(3)	Foundations of Programming
GEOG 201	(3)	Introductory Geo-Information Science

**Complementary Courses (12 credits)**

3 credits selected from:

GEOG 306*	(3)	Raster Geo-Information Science
GEOG 307*	(3)	Socioeconomic Applications of GIS

6 credits selected from the following:

GEOG 308*	(3)	Principles of Remote Sensing
GEOG 384	(3)	Principles of Geospatial Web
GEOG 506*	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

3 credits from the follo

3 credits from:

The Global Environment

**Required Courses (6 credits)**

COMP 202	(3)	Foundations of Programming
GEOG 201	(3)	Introductory Geo-Information Science

**Complementary Courses (12 credits)**

3 credits selected from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS

6 credits selected from:

GEOG 308	(3)	Principles of Remote Sensing
GEOG 384*	(3)	Principles of Geospatial Web
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

3 credits selected from:

ANTH 511	(3)	Computational Approaches to Prehistory
ATOC 309	(3)	Weather Radars and Satellites
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System
GEOG 306*	(3)	Raster Geo-Information Science
GEOG 307*	(3)	Socioeconomic Applications of GIS
GEOG 308*	(3)	Principles of Remote Sensing
GEOG 384*	(3)	Principles of Geospatial Web
GEOG 506*	(3)	Advanced Geographic Information Science
GEOG 535*	(3)	Remote Sensing and Interpretation

\* may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

**4.10.18.7 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Geography - Physical Geography (36 credits)**

The Major Concentration Geography - Physical Geography, which is restricted to students in the B.A. & Sc., is a planned sequence of courses designed to permit a degree of specialization in this discipline.

**Required Courses (12 credits)**

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

**Complementary Courses (24 credits)**

Courses are selected as follows:

6 credits of analytical techniques are selected from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods

3 credits of field courses selected from:

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

9-15 credits in systematic physical geography selected from:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

0-6 credits in integrative and advanced topics selected from:

GEOG 302	(3)	Environmental Management 1
GEOG 501	(3)	Modelling Environmental Systems
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:

**Ph**

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

3 credits from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 351	(3)	Quantitative Methods
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research

### 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.

GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods

**Complementary Courses (27 credits)**

**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**

3-6 credits selected from:

GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 494	(3)	Urban Field Studies

18-21 credits from the course lists below:

**Geography**

\* Students can choose one only from GEOG 210, GEOG 216 or GEOG 221.

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 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
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 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power
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 525	(3)	Asian Cities in the 21st Century

**Architecture**

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before the 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 & 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

#### **Management**

FINE 445	(3)	Real Estate Finance
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#### **Political Science**

POLI 318	(3)	Comparative Local Government
POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

#### **Sociology**

#### **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".



**4.10.19 History and Classical Studies (HIST & CLAS)**

History and Classical Studies information, programs, and courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.19: History and Classical Studies \(HIST & CLAS\)](#).

**4.10.19.1 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
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**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
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NOTE: Minimum 3 credits CLAS courses at the 400-level

NOTE: Maximum 9 credits complementary courses at the 200-level

Note: a maximum total of 6 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) may be counted toward the program.

**4.10.19.2 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 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

### **4.10.19.3 Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)**

The Major Concentration in Classical Studies is an in-depth study of ancient Greece and Rome. Two Streams are offered. The Classical Languages stream emphasizes ancient Greek and Latin language, requiring advanced coursework in one or both languages. The Classical Studies stream provides a broad foundation in ancient languages and Greek and Roman literature while allo

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

HIST 215	(3)	Modern Europe
HIST 216	(3)	Introduction to Russian History



- 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
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
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**

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 and Religious Tourism in South Asia
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**

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
		Advanced Persian 1

#### **4.10.20.1 Bachelor of Science (B.Sc.) - Minor Interdisciplinary Life Sciences (24 credits)**

The Interdisciplinary Life Sciences Minor will allow students from the earth, physical, math, and computational science areas to broaden their studies with some basic life sciences, health social science, and empirical technological science. The Minor is 24 credits and allows students flexibility in their course 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)**

The 24 credits required for this program must satisfy the following criteria:

At least 18 credits must be outside the student's main discipline.

Depth requirement:

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 Microbial Physiology

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 & 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.

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 Science.

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 202	(3)	Foundations of Programming
COMP 364	(3)	Computer Tools for Life Sciences
COMP 462	(3)	Computational Biology Methods
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
MATH 204	(3)	Principles of Statistics 2
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 305	(3)	Statistics for Experimental Design

#### 4.10.21 Interdisciplinary Studies

Interdisciplinary Studies information, programs, and courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.22: Interdisciplinary Studies](#).

Interdisciplinary Studies programs leading to a B.A. & Sc. degree are offered in the following areas:

- Catholic Studies
- History and Philosophy of Science
- Medieval Studies
- North American Studies
- Quebec Studies/Études sur le Québec
- World Cinema

##### 4.10.21.1 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
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##### 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
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**Sociology (SOCl)**

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

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#### 4.10.21.2 Bachelor of Arts (B.A.) - Minor Concentration Medieval Studies (18 credits)

The Minor Concentration in Medieval Studies facilitates undergraduate training in the interrelated branches of the discipline (e.g., history, literature, art history, languages, religion, philosophy), providing students with experience working in an inherently interdisciplinary field and a valuable credential to pursue graduate study in the field (in any area).

##### Required Course (3 credits)

MDST 400 (3) Interdisciplinary Seminar in Medieval Studies

##### Complementary Courses (15 credits)

15 credits from the following list, of which only 9 credits may be taken in any one department. No more than 6 credits may be taken below the 300 level.

##### Art History and Communication Studies

ARTH 204 (3) Introduction to Medieval Art and Architecture  
ARTH 314 (3) The Medieval City  
ARTH 425 (3) Arts of Medieval Spain

##### English

ENGL 306 (3) Theatre History: Medieval and Early Modern  
ENGL 337 (3) Theme or Genre in Medieval Literature  
ENGL 342 (3) Introduction to Old English  
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 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

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 & 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)	The Church in History 1
RELG 532	(3)	History of Christian Thought 1

#### **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 crédits)**

La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire a pour but de donner à l'étudiant(e) une connaissance interdisciplinaire des réalités historiques et contemporaines du Québec en complémentarité à sa propre discipline de spécialisation tout en misant sur un apprentissage par engagement communautaire en milieu montréalais. En collaboration avec le Social Equity and Diversity Education (SEDE) Office, les étudiants ont ainsi la possibilité, grâce à un stage, de mettre en pratique le contenu d'enseignement des cours au sein d'un organisme communautaire montréalais. Enjeux liés à l'équité, à la diversité et à l'inclusion en contexte montréalais.

The goal of the Minor Concentration Quebec Studies and Community-Engaged Learning is to give students an interdisciplinary overview of Quebec historical and contemporary realities that is complementary to their degree by taking advantage of a community engagement learning approach within the Montreal community. With the collaboration of the Social Equity and Diversity Education (SEDE) Office, students have the possibility to link the academic course content with a hands-on experience within a Montreal community organization. Equity, diversity and inclusion issues within the Montreal context.

#### **Required Courses / Cours Obligatoires (9 crédits)**

De façon usuelle, les cours obligatoires (9 crédits) sont complétés selon la séquence suivante : QCST 200 (3 crédits) en U0 ou U1, QCST 300 (3 crédits) en U1 et QCST 440 (3 crédits) en U2 ou en U3. Les cours complémentaires (9 crédits) peuvent être complétés en U1, U2 ou en U3.



Normally, the required courses (9 credits) are completed in the following order: QCST 200 (3 credits) in U0 or U1, QCST 300 (3 credits) in U1 and QCST 440 (3 credits) in U2 or in U3. The complementary courses (9 credits) can be completed in U1, U2, or U3.

FREN 315	(3)	Cinéma québécois
FREN 450	(3)	Questions de littérature québécoise
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

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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.

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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
	(3)	Cinema and the Visual

HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

**Group B**

9 credits from the Group B course lists below drawn from at least 2 disciplines with no more than 6 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)	Topics: African History
HIST 579D2	(3)	Topics: 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 & 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
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HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa
HIST 382	(3)	History of South Africa

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)	Topics: African History
HIST 579D2	(3)	Topics: 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 & 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
HIST 498	(0)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

**Islamic Studies**

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic

**Political Science**

\* Note: Course is counted only when African materials are taught.

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)**

This program may be expanded to the Major Concentration International Development Studies.

**Course Selection Guidelines for the Overall Program**

1. At least 9 of the 18 credits must be at the 300 level or above. Ultimately, no 200-level courses can be taken from the Stream list.
2. Students may complete the Minor concentration with no more than 9 credits in total from any one 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 (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)**



## **Introductory**

3 credits from the following introductory courses:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
POLI 227	(3)	Developing Areas/Introduction
SOCI 254	(3)	Development and Underdevelopment

## **Streams**

6 credits from any of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

### **Stream 1: Economic Development and Living Standards**

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around economic growth.

GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 409	(3)	Geographies of Developing Asia
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

**Stream 1 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 1 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 1 - Management Core**

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

**Stream 1 - Management Policy**

MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability

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POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development

**Stream 2 - Sociology**

SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

**Stream 2 - Social Work**

SWRK 400	(3)	Policy and Practice for Refugees
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**Stream 3: Culture and Society**

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Mo0(POLI 12iT91.0 1.714 535.503 Tm(v)Tj1 0 091 362.478 535.503 Trm

(3)

Latin America since 1825

POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

**Stream 3 - 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

**Stream 3 - Sociology**

SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

**Stream 4: Environment and Agricultural Resources**

Within development studies, the environment has long been recognized as a vital determinant of development. More recently, many scholars have changed their environmental focus to emphasize sustainability. The courses in this stream recognize both: some courses consider how the environment can be exploited to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

**Stream 4 - Agricultural Economics**

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

**Stream 4 - Agriculture**

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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**Stream 4 - Anthropology**

ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ANTH 512	(3)	Political Ecology

**Stream 4 - Economics**

ECON 326	(3)	Ecological Economics
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**Stream 4 - Geography**

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development

GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

#### **Stream 4 - History**

HIST 361	(3)	Topics in Canadian Regional History
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#### **Stream 4 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

#### **Stream 4 - Nutrition**

NUTR 501	(3)	Nutrition in Developing Countries
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#### **4.10.22.4 Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)**

##### **Course Selection Guidelines for the Overall Program**

1. In their complete program (36 credits), students can take a maximum of 15 credits from any one discipline. Students must also complete 9 credits in a discipline other than Economics.
2. At least 18 of the 36 credits must be at the 300 level or above.
3. Students are permitted to take up to 3 credits maximum from another Stream Complementary course list, to count towards 371.184 minimum from the 300 level

## Streams

15 credits from one of the four streams:

Stream 1: Economic Development and Living Standards

Stream 2: States and Governance

Stream 3: Culture and Society

Stream 4: Environment and Agricultural Resources

### **Stream 1: Economic Development and Living Standards**

Experience has shown that development requires economic growth and is shaped by the distribution of economic resources. At the same time, the globalized economy has created new opportunities and new challenges for sustained growth. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is about economic growth and development. Courses in this stream revolve around the factors contributing to sustained economic growth, the trade-offs associated with different ways of achieving it, and the distributional issues development inevitably raises. More generally, this stream is about economic growth and development.



**Stream 1 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 1 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 1 - Management Core**

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

**Stream 1 - 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

**Stream 1 - Political Science**

POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations

**Stream 1 - Sociology**

SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

**Stream 2: States and Governance**

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

**Stream 2 - Anthropology**

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

**Stream 2 - Economics**

ECON 223	(3)	Political Economy of Trade Policy
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**Stream 2 - History**

HIST 223	(3)	Indigenous Peoples and Empires
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914

**Stream 2 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 2 - Islamic Studies**

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

**Stream 2 - Latin American & Caribbean Studies**

POLI 441	(3)	IPE: Trade
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

**Stream 2 - Sociology**

SOCI 265	(3)	War, States and Social Change
SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

**Stream 2 - Social Work**

SWRK 400	(3)	Policy and Practice for Refugees
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**Stream 3: Culture and Society**

The courses in this stream focus on how the social structures, history, and culture of populations affect de

**Stream 3 - English**

ENGL 440 (3) First Nations and Inuit Literature and Media

**Stream 3 - History**

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

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 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

**Stream 3 - International Development Studies**

INTD 350 (3) Culture and Development  
 INTD 352 (3) Disasters and Development  
 INTD 354 (3) Civil Society and Development  
 INTD 397 (3) Topics in International Development  
 INTD 490 (3) Development Research Project  
 INTD 499 (3) Internship: International Development Studies

**Stream 3 - 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

### **Stream 3 - Latin American & Caribbean Studies**

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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\* When topic is relevant to IDS.

### **Stream 3 - Management, Organizational Behaviour**

to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

**Stream 4 - Agricultural Economics**

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

**Stream 4 - Agriculture**

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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**Stream 4 - Anthropology**

ANTH 206	(3)	Environment and Culture
ANTH 301	(3)	Nomadic Pastoralists
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ANTH 512	(3)	Political Ecology

**Stream 4 - Economics**

ECON 326	(3)	Ecological Economics
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**Stream 4 - Geography**

GEOG 302	(3)	Environmental Management 1
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 510	(3)	Humid Tropical Environments

**Stream 4 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 4 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

**Stream 4 - Management Policy**

MGPO 440	(3)	Strategies for Sustainability
MSUS 402	(3)	Systems Thinking and Sustainability

## Stream 4 - Nutrition

**Introductory**

6 credits from the following introductory courses (only one course from each discipline may be counted):

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy Developing



**Stream 1 - Geography**

GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 409	(3)	Geographies of Developing Asia
GEOG 410	(3)	Geography of Underdevelopment: Current Problems

**Stream 1 - History**

HIST 361	(3)	Topics in Canadian Regional History
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**Stream 1 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

**Stream 1 - Management Core**

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

**Stream 1 - 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

**Stream 1 - Mining and Materials Engineering**

MIME 524	(3)	Mineral Resources Economics
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**Stream 1 - Natural Resource Sciences**

NRSC 340	(3)	Global Perspectives on Food
NRSC 540	(3)	Socio-Cultural Issues in Water

**Stream 1 - Political Science**

POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 441	(3)	IPE: Trade
POLI 445	(3)	International Political Economy: Monetary Relations

**Stream 1 - Sociology**

SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa

**Stream 2: States and Governance**

The courses in this stream focus on how political institutions shape developmental processes. Some courses analyze states and recognize how some promote development by providing diverse developmental goods while others impede development by preying on their peoples. Other courses focus on regimes and consider how political rights and participation, or their absences, affect developmental processes. Finally, several courses consider factors that make possible effective states and regimes.

**Stream 2 - Anthropology**

ANTH 342	(3)	Gender, Inequality and the State
ANTH 512	(3)	Political Ecology

**Stream 2 - International Development Studies**

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 397	(3)	Topics in International Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

**Stream 2 - Islamic Studies**

ISLA 360	(3)	Islam and Politics
ISLA 383	(3)	Central Questions in Islamic Law

**Stream 2 - Latin American & Caribbean Studies**

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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**Stream 2 - Political Science**

POLI 319	(3)	Politics of Latin America
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POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
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 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
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 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development

**Stream 2 - Sociology**

SOCI 484	(3)	Emerging Democratic States
SOCI 550	(3)	Developing Societies

**Stream 2 - Social Work**

SWRK 400	(3)	Policy and Practice for Refugees
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**Stream 3: Culture and Society**

The courses in this stream focus on how the social structures, history, and culture of populations affect developmental processes. Associations, class, gender, religion, race, and ethnicity, for example, all shape development in multiple and diverse ways. Moreover, present developmental processes oftentimes cannot be adequately understood without considering history. Culture, in turn, is increasingly recognized within development studies as both a determinant and a constitutive element of development. In exploring all three, the courses in this stream provide important insight into the complex and varied relationship between social context and development.

**Stream 3 - Anthropology**

ANTH 301	(3)	Nomadic Pastoralists
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 338	(3)	Native Peoples of North America
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 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora

**Stream 3 - Canadian Studies**

CANS 315	(3)	Indigenous Art and Culture
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**Stream 3 - English**

ENGL 440	(3)	First Nations and Inuit Literature and Media
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**Stream 3 - History**

Students may count either HIST 339 or POLI 347 toward Stream 3 but not both. See the Political Science course list for Stream 3.

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 Indian Ocean

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

**Stream 3 - Latin American & Caribbean Studies**

to promote human well-being while others consider how the environment must be respected to render development sustainable. Together, they highlight the delicate balance that must be attained between humans and their environments to make possible sustainable livelihoods.

**Stream 4 - Agriculture**

AGRI 411 (3) Global Issues on Development, Food and Agriculture

**Stream 4 - Agricultural Economics**

AGEC 430 (3) Agriculture, Food and Resource Policy

AGEC 442 (3) Economics of International Agricultural Development

**Stream 4 - Anthropology**

ANTH 301 (3) Nomadic Pastoralists

ANTH 339 (3) Ecological Anthropology

ANTH 418 (3) Environment and Development

ANTH 512 (3) Political Ecology

**Stream 4 - Economics**

ECON 326 (3) Ecological Economics

**Stream 4 - Geography**

GEOG 302 (3) Environmental Management 1

GEOG 403 (3) Global Health and Environmental Change

GEOG 408 (3) Geography of Development

GEOG 410 (3) Geography of Underdevelopment: Current Problems

GEOG 510 (3) Humid Tropical Environments

**Stream 4 - History**

HIST 361 (3) Topics in Canadian Regional History

**Stream 4 - International Development Studies**

INTD 350 (3) Culture and Development

INTD 352 (3) Disasters and Development

INTD 354 (3) Civil Society and Development

INTD 397 (3) Topics in International Development

INTD 490 (3) Development Research Project

INTD 491 (3) Honours Thesis

INTD 492 (6) Honours Thesis with Field Research

INTD 499 (3) Internship: International Development Studies

INTD 597 (3) Seminar in International Development

**Stream 4 - Management Core**

MGCR 360 (3) Social Context of Business

**Stream 4 - Nutrition**

NUTR 501	(3)	Nutrition in Developing Countries
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**4.10.22.6 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





ANTH 332	(3)	Mesoamerican Archaeology
ANTH 422	(3)	Contemporary Latin American Culture and Society

**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 a6eT(3)	(3)	Studies in Drama
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**History**

HIST 197

(3)

FYS: Race in Latin America

(3)

Indigenous Peoples and Empires

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 & 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 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

### **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 & 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 Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4
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 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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

i0 1 165m(JWST 347)Tj1 0 0g.55JWST 347 Modern Jewish Studies

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 Cour**





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 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897

JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

**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 & 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 Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2



JWST 357	(3)	Jewish Labour Movement/North America
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 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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**

.C.E. to 1000 Jewish History: 400 B.C.E. to 1000

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

**4.10.24.3 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 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
JWST 481	(3)	Advanced Yiddish 2

**Areas of Jewish Studies**

15-21 credits, planned with an adviser and normally chosen to reflect progress to the advanced level in one of the areas of study: 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
JWST 573	(3)	History of Hebrew Bible Text
JWST 575	(3)	Topics in Parshanut
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran & 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 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 487	(3)	Tutorial in Yiddish Literature

JWST 488	(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 305	(3)	American Jewish History / Colonial Era to WWI
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City

### **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 & 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 486	(3)	Tutorial in Yiddish Literature
JWST 487	(3)	Tutorial in Yiddish Literature
JWST 488	(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 356	(3)	Jewish Labour Movement/Eastern Europe
JWST 357	(3)	Jewish Labour Movement/North America
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 371D1	(3)	Jews and the Modern City
JWST 371D2	(3)	Jews and the Modern City
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 have been included in the areas of study course lists above.

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
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 & 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 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 I
RUSS 440	(3)	Russia and Its Others Narrativ



(3)

Critical Theory

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
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 457	(3)	Medieval Literature
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque
HISP 505	(3)	Seminar in Hispanic Studies 01

**Courses Taught in English**

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1



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 & 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 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 and RUSS 211.

\*\* RUSS 316 is not open to students who have taken RUSS 310 and RUSS 311.

\*\*\* RUSS 415 is not open to students who have taken RUSS 400 and RUSS 401.

**4.10.25.6 Bachelor of Arts (B.A.) - Minor Concentration Russian Culture (18 credits)**

The Minor Concentration Russian Culture is designed primarily as an adjunct to area studies and/or programs in the humanities or social sciences. There are no Russian language requirements.

This program may be expanded into a Major Concentration in Russian.

**Complementary Courses (18 credits)**

Courses offered by LLC may be accepted subject to approval by the Department.

18 credits selected with the following specifications:

At least 6 credits from Group A

6-12 credits from Group B

**Group A**

At least 6 credits from:

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

**Group B**

6-12 credits from:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 229	(3)	Introduction to Russian Folklore
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 365	(3)	Supernatural and Absurd in Russian Literature
R	(3)	Russia's Utopia Complex

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

#### **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 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

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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

#### **4.10.25.9 Bachelor of Arts (B.A.) - Major Concentration 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 Am/d1 0 0 1 104RM 381



- 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 & 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
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 R

\* 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.

#### **4.10.25.12 Bachelor of Arts (B.A.) - Joint Honours Component German Studies (36 credits)**

The Joint Honours – German Studies Component 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 Joint Honours Component and normally courses towards the Joint Honours Component 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.

Note: Beginners' and intermediate language levels are offered either as a one-term intensive course or a two-term spanned course. Students choose which version of the level they prefer.

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 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

#### **4.10.25.13 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 "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 are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

#### **Required Courses (9 credits)**

HISP 451	(3)	Don Quixote
HISP 490D1	(3)	Honours Thesis

HISP 490D2 (3) Honours Thesis

### Complementary Courses (27 credits)

27 credits selected as follows:

#### Survey of Literature

At least 6-12 credits from the following:

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

#### 400-Level

At least 6 credits from the 400-level courses below:

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 above the Intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

No more than 12 credits in courses taught in English shall count towards this program.

### 4.10.25.14 Bachelor of Arts (B.A.) - Joint Honours Component Italian 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".

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 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Admission to Joint Honours requires departmental approval. Students wishing to register in the program should consult with the Department as early as possible. Students may register for Joint Honours in the first year, instead of the second year, if in the opinion of the departments they are found to be qualified.

#### Required Courses (6 credits)

ITAL 355	(3)	Dante and the Middle Ages
ITAL 470	(3)	Joint Honours Thesis

### Complementary Courses (30 credits)

30 credits, 6 of which must be at the 400 level or above, selected from the four Italian course lists as follows:

0-12 credits from Group A – Basic Language Courses.

12-30 credits from Group B – Courses Taught in Italian.

0-18 credits combined from Group C – Courses Taught in English and Group D – Courses Offered in Other Departments.

Note: Students with advanced standing in the language must replace language courses with courses from groups B, C, and D.

#### 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 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

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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.

#### **4.10.26.2 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.

#### **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



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.

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

### Expandable Version: Required Courses (12 credits)

\* 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-expandable version of this program complete 9 credits of complementary courses from the Complementary Course List.

It is strongly recommended that students take MATH 323 as a complementary course.

### Complementary Course List

\* Note: Either MATH 249 or MATH 316 may be taken but not both.

MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 316*	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 320	(3)	Differential Geometry

MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 340	(3)	Discrete Structures 2
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)	Regression and Analysis of Variance

#### Complementary Courses (3 credits)

3 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
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

#### **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 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-lev

MATH 423 (3) Regression and Analysis of Variance

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
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)**

**Revision, May 2019. Start of revision.**

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.

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**Complementary Courses (27 credits)**

3 credits selected from:

MA

(3)

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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

**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 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 C**

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

**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 E**

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

#### 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





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
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 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

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.

Tutorial 05

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 228	(3)	Energy and the Environment
PHYS 260	(3)	Modern Physics and Relativity
PHYS 446	(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 446	(3)	Majors Quantum Physics

#### Complementary Courses (6 credits)

6 credits selected from:

PHYS 214	(3)	Introductory Astrophysics
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 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

#### **4.10.30 Political Science (POLI)**

The Department of Political Science, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.32: Political Science \(POLI\)](#).

##### **4.10.30.1 Bachelor of Arts (B.A.) - Minor Concentration Political Science (18 credits)**

This program may be expanded to the Major Concentration Political Science.

##### **Complementary Courses (18 credits)**

18 credits selected as follows:

6-9 POLI credits at the 200 level.

9-12 POLI credits at the 300 level or above.

No more than 6 POLI transfer credits can be used toward the program requirements.

POLI 490, POLI 499, and POLI 599 cannot be used towards the Minor program.

##### **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 15 of the 36 credits may be at the 200 level.

In the final year, no course used toward the program requirements may be below

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

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 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 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
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	(0)	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

### 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.

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 (6 credits)

POLI 210*	(3)	Political Science Research Methods
POLI 311**	(3)	Introduction to Quantitative Political Science

\* The POLI 210 requirement is waived for students admitted to McGill BEFORE Fall 2017. The POLI 210 requirement is waived for students who have taken SOCI 211.

NOTE: If the POLI 210 requirement is waived, students must still fulfill the 36-credit program requirement.

\*\* POLI 311 is required except for those students who are enrolled in a Joint Honours program with Economics or Sociology, and who have taken courses in quantitative analysis as part of that program (i.e., ECON 257 or SOC 350 and SOCI 461). These students must take an additional 3 credits in Political Theory instead of POLI 311.

POLI 311 is scheduled in the winter term only. Students may not postpone taking POLI 311 with the expectation of taking it in the last summer or fall immediately prior to fall or winter graduation. Students who fail to take POLI 311 for this reason will not graduate with an Honours degree.

### Complementary Courses (30 credits)





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 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	()	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
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#### **4.10.31 Psychology (PSYC)**

The Department of Psychology information, programs, and courses are described in:

- [Faculty of Arts](#) > [Undergraduate](#) > [Browse Academic Units & Programs](#) > [section 3.10.33: Psycholo](#)

PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Learning and 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

### 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

### 4.10.31.2 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.

### Bachelor of Ar



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 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 Learning and 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

### 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 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".



The application is available on the Psychology Dept website at:

<http://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses>. The deadline is specified on the application form. Candidates will be informed of the Department's decision via email before classes begin in September.

### Program Prerequisites

Students planning on entering the Joint Honours Component Psychology program are required to complete Introductory Psychology; a course in Human Biology is strongly recommended.

Students who have not previously completed Psychology 350-101 or 350-102 in CEGEP are required to register for PSYC 100 during their U1 year.

Bachelor of Arts students who have not completed one of Biology 101-301, 101-401, 101-911 or 101-921 in CEGEP should complete one of BIOL 115, BIOL 111 or BIOL 112 during their U1 year. Students who enter as Freshmen may take these courses in U0.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

### 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 Quantitative Methods 360-300 with Mathematics 201-300, and who obtained a minimum grade of 75%, are exempt from the U1 required course PSYC 204.

Bachelor of Arts students will replace this requirement with 3 credits at the 300 level in one of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING) or Sociology (SOCL).

Bachelor of Arts and Science students will replace this requirement with 3 credits in Psychology at the 300-level or above.

\*\* Note: PSYC 305 may be taken in U1 or U2.

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
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.

## 4.10.32 Religious Studies (RELG)

Religious Studies information, programs, and courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.34: Religious Studies \(RELG\)](#).

### 4.10.32.1 Bachelor of Arts (B.A.) - Minor Concentration Religion and Globalization (18 credits)

The Minor Concentration in Religion and Globalization offers students a comparative and historical exploration of the ways in which the world's religions are shaping (and are shaped by) the social, political, and economic dynamics of globalization, modernization, secularization, and postcolonialism.

**Complementary Credits**

18 credits with no more than 9 credits at the 200 level.

3 - 6 credits from:

RELG 208	(3)	World Religions and Cultures They Create
RELG 331	(3)	Religion and Globalization

**Religious Traditions**

3 - 6 credits from:

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
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 334	(3)	Christian Thought and Culture
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)	Sexual Ethics
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
RELG 332	(3)	Conversations Across World Religions
RELG 339	(3)	Gender & Sexuality in Buddhism
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 356	(3)	Gender & Sexuality in Hinduism
RELG 358	(3)	Religion and Cinema in India
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 378	(3)	Pilgrimage and Religious Tourism in South Asia
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 444	(3)	Indian Ocean Religious Networks
RELG 451	(3)	Zen: Maxims and Methods
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 456	(3)	Theories of Religion
RELG 479	(3)	Christianity in Global Perspective
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 547	(3)	Special Topics in Hinduism
RELG 554	(3)	Religions of South Asia
RELG 555	(3)	Honours Seminar
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.) - Minor Concentration World Religions (18 credits)**

The Minor Concentration World Religions introduces students to the major world religions and to the academic study of religion.

This program may be expanded to the Major Concentration World Religions.

#### **Complementary Courses (18 credits)**

18 credits, no more than 9 of which may be taken at the 200-level, selected with the following specifications:

12 credits in Religious Traditions chosen from the course lists on Judaism, Christianity and Islam and/or Religions of Asia.

6 credits from the course list on Themes in Religion, Culture and Globalization.

12 credits from Religious Traditions:

#### **Judaism, Christianity and Islam**

CATH 200	(3)	Introduction to Catholicism
ISLA 200	(3)	Islamic Civilization
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 222	(3)	World Christianity
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 & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1

RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Christian Ethics of Love
RELG 379	(3)	Eastern Orthodox Christianity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

**Religions of Asia**

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East 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 & 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: Maxims and Methods
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 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry

6 credits from:

#### **Themes in Religion, Culture and Globalization**

ISLA 310	(3)	Women in Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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 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 376

RELG 378	(3)	Pilgrimage and Religious Tourism in South Asia
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 440	(3)	Global Islam
RELG 444	(3)	Indian Ocean Religious Networks
RELG 456	(3)	Theories of Religion
RELG 479	(3)	Christianity in Global Perspective
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 555	(3)	Honours Seminar
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

#### **4.10.32.3 Bachelor of Arts (B.A.) - Major Concentration World Religions (36 credits)**

The Major Concentration World Religions offers students a broad introduction to the study of the world's major religions, with the possibility for concentration in a student's specific areas of interest. Developing an understanding of methods and problems in comparative approaches to the academic study of religion will be encouraged.

#### **Required Course (3 credits)**

RELG 456	(3)	Theories of Religion
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#### **Complementary Courses (33 credits)**

33 credits, no more than 12 of which may be taken at the 200 level, selected with the following specifications:

Religious Traditions: 24 credits chosen from the course lists on Judaism, Christianity, and Islam and/or Religions of Asia according to the student's area of interest.

Themes in Religion, Culture, and Globalization: 9 credits from the course list below according to the student's area of interest.

24 credits of Religious Traditions:

#### **Judaism, Christianity, and Islam**

CATH 200	(3)	Introduction to Catholicism
CATH 310	(3)	Catholic Intellectual Traditions
CATH 340	(3)	Catholicism and Public Policy
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
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 222	(3)	World Christianity
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 & Interpretations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2

RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	The Church in History 1
RELG 323	(3)	The Church in History 2
RELG 324	(3)	Armenian Apostolic Tradition
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Christian Theology 1
RELG 334	(3)	Christian Thought and Culture
RELG 336	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 373	(3)	Christian Ethics of Love
RELG 379	(3)	Eastern Orthodox Christianity
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 399	(3)	Christian Spirituality
RELG 420	(3)	Canadian Church History
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Principles of Christian Theology 2
RELG 470	(3)	Theological Ethics
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2

### **Religions of Asia**

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East 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 & 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: Maxims and Methods

RELG 452	(3)	East Asian Buddhism
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought





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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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 and Religious Tourism in South Asia
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
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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 & 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: Maxims and Methods
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.

### **4.10.32.5 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Western Religions (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".

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 Wyof.32.5

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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Sexual Ethics
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	(3)	Religious Controversies
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 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 & Interpretations
RELG 308	(3)	Ancient Bible Translations
RELG 311	(3)	New Testament Studies 1
RELG 312	(3)	New Testament Studies 2
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
	(3)	The Church in History 1



ANTH 423

- (3) Mind, Brain and Psychopathology
- (3) Topics in Medical Anthropology

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 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 400	(3)	Comparative Migration & Citizenship
SOCI 424	(3)	Networks and Social Structures
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

Revision, May 2019. End of revision.

**4.10.34.2 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)**

Revision, May 2019. Start of revision.

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 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
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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 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & 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

Revision, May 2019. End of revision.

**Bachelor of Ar**

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 3.40 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

### 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
SOCI 338	(3)	Introduction to Biomedical Knowledge
SOCI 388	(3)	Crime
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 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 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity & 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

**Revision, May 2019. End of revision.**

## **4.10.35 Sustainability, Science and Society**

### **4.10.35.1 Location**

**Program website:** [www.mcgill.ca/ss](http://www.mcgill.ca/ss)

#### **Program Adviser:**

Graham MacDonald (*Assistant Professor*)  
 Department of Geography  
 McGill University, Burnside Hall  
 805 Sherbrooke Street West  
 Montreal QC H3A 0B9 CANADA  
 Telephone: 514-398-4828  
 Email: [gr](mailto:gr)

**Required Courses (27 credits)**

27 credits selected as follows:

**Foundations of Sustainability**

9 credits selected from Foundations of Sustainability as follows:

ENVR 201	(3)	Society, Environment and Sustainability
GEOG 360	(3)	Analyzing Sustainability
GEOG 460	(3)	Research in Sustainability

**Biophysical, Societal, Cultural, Institutional, and Ethical**

18 credits from introduction to biophysical, societal, cultural, institutional, and ethical dimensions of sustainability.

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 Cour**



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 306	(3)	Raster Geo-Information Science

GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
GEOG 520	(3)	Agric., Envir.,& Food Security
	(3)	History and the Environment



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 501	(3)	Modelling Environmental Systems

**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 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing
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: Society, Economics, Policy, Ethics, and Equity**

Take at least one course from each subsection (2A and 2B) below:

## 2A: Society, Economics, and Policy

Note:

\* Students select either AGEC 200 or ECON 208, but not both.

\*\* Students may select either AGEC 201 or ECON 209, but not both.

AGEC 200*	(3)	Principles of Microeconomics
AGEC 201**	(3)	Principles of Macroeconomics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 209**	(3)	Macroeconomic Analysis and Applications
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
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 292	(3)	History and the Environment
MGCR 360	(3)	Social Context of Business Strate

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 3.10.39: 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

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 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic

ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2
ISLA 526	(3)	Colloquial Arabic

#### **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**

18 credits of Persian language (3 levels) from the list below.

ISLA 541D1	(3)	Introductory Persian
ISLA 541D2	(3)	Introductory Persian
ISLA 542D1	(3)	Lower Intermediate Persian
ISLA 542D2	(3)	Lower Intermediate Persian
ISLA 543	(3)	Upper Intermediate Persian 1
ISLA 544	(3)	Upper Intermediate Persian 2
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

#### **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**

18 credits of Turkish language (3 levels) from the list below.

ISLA 532D1	(3)	Introductory Turkish
ISLA 532D2	(3)	Introductory Turkish
ISLA 533D1	(3)	Lower Intermediate Turkish
ISLA 533D2	(3)	Lower Intermediate Turkish
ISLA 534D1	(3)	Higher Intermediate Turkish
ISLA 534D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

#### **Bachelor of Arts (B.A.) - Minor Concentration Ur**

ISLA 551D1	(3)	Introductory Urdu-Hindi
ISLA 551D2	(3)	Introductory Urdu-Hindi
ISLA 552D1	(3)	Intermediate Urdu-Hindi
ISLA 552D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2
ISLA 555	(3)	Urdu Poetry

#### **4.10.36.5 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 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 of 100-/200-level non-language ISLA courses;

9 credits of 300-level non-language ISLA courses;

6 credits at any level, 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.

#### **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 & Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

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6 credits at any level, but no more than 6 credits overall at the 100/200 level. Students might fulfil these credits by taking complementary courses from other departments listed below.

### 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 & 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 & 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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran & Interpretations
RELG 573POLI 340	(3)	Religions in Global Society

ISLA 525 (3) Advanced Arabic 2

### Persian

ISLA 541D1 (3) Introductory Persian  
 ISLA 541D2 (3) Introductory Persian  
 ISLA 542D1 (3) Lower Intermediate Persian  
 ISLA 542D2 (3) Lower Intermediate Persian  
 ISLA 543 (3) Upper Intermediate Persian 1  
 ISLA 544 (3) Upper Intermediate Persian 2  
 ISLA 545 (3) Advanced Persian 1  
 ISLA 546 (3) Advanced Persian 2

### Turkish

ISLA 532D1 (3) Introductory Turkish  
 ISLA 532D2 (3) Introductory Turkish  
 ISLA 533D1 (3) Lower Intermediate Turkish  
 ISLA 533D2 (3) Lower Intermediate Turkish  
 ISLA 534D1 (3) Higher Intermediate Turkish  
 ISLA 534D2 (3) Higher Intermediate Turkish  
 ISLA 535D1 (3) Advanced Turkish  
 ISLA 535D2 (3) Advanced Turkish

### Urdu

ISLA 551D1 (3) Introductory Urdu-Hindi  
 ISLA 551D2 (3) Introductory Urdu-Hindi  
 ISLA 552D1 (3) Intermediate Urdu-Hindi  
 ISLA 552D2 (3) Intermediate Urdu-Hindi  
 ISLA 553 (3) Advanced Urdu-Hindi 1  
 ISLA 554 (3) Advanced Urdu-Hindi 2

### 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 & 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
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 & 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 Language and Israeli Culture 1
JWST 368	(3)	Hebrew Language and Israeli Culture 2
JWST 369	(3)	Hebrew Language and Israeli Culture 3
JWST 370	(3)	Hebrew Language and Israeli Culture 4
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 208	(3)	World Religions and Cultures They Create
RELG 256	(3)	Women in Judaism and Islam
RELG 307	(3)	Bible, Quran & Interpretations
RELG 573	(3)	Religions in Global Society

#### **4.10.36.7 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, but also its regional specificities, and that of the Middle East in particular, the .864 505.48 T4 411.16 T bo6 T bo6 T bo

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**

ISLA 521D1	(4.5)	Introductory Arabic
ISLA 521D2	(4.5)	Introductory Arabic
ISLA 522	(6)	Lower Intermediate Arabic
ISLA 522D1	(3)	Lower Intermediate Arabic
ISLA 522D2	(3)	Lower Intermediate Arabic
ISLA 523D1	(3)	Higher Intermediate Arabic
ISLA 523D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

**Persian**

**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 & 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 lev



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## 5 Faculty of Education

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### 5.1 About the Faculty

The Faculty of Education serves approximately 2,500 students enrolled in undergraduate, graduate, and professional development programs. The Faculty is organized into three departments, and has a number of research and service centres, including several of an interdisciplinary nature.

The Faculty of Education has a role in the initial training of teachers and leaders in education-allied occupations. It also prepares professionals in the areas of Educational and Counselling Psychology and Kinesiology and Physical Education. It provides professional development services to the wider educational community and it is concerned with constructing knowledge through research and scholarship.

In recent years, a number of links have been established with counterparts in other countries for teaching, research, and development purposes. Current active projects, some of which involve students as well as staff, include those in Japan, Hong Kong, Indonesia, South Africa, and Mexico.

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### 5.2 History

The Faculty of Education traces its beginnings back to 1857, when the McGill Normal School was established at McGill by agreement between the University and the Government of Quebec. In 1907, it was renamed the School for Teachers and was moved to Sainte-Anne-de-Bellevue, where it became part of Macdonald College. At this time also, the Macdonald Chair of Education was endowed at McGill University and a Department of Education was created in the Faculty of Arts and Science for the purpose of preparing candidates for the High School Diploma. The first graduate program was inaugurated in 1930, and in 1953, the University established the B.Ed. degree.

In 1955, the School for Teachers and the Department of Education were combined to become the Institute of Education within the Faculty of Arts and Science. To these was joined, in 1957, the McGill School of Physical Education (founded in 1912).

The Institute was reconstituted as the Faculty of Education in 1965 and the work continued on both the McGill and Macdonald campuses. The St. Joseph Teachers College and the Faculty of Education were amalgamated in 1970 and relocated in a new building on the McGill campus. In 1996, the School of Information Studies became affiliated with the Faculty, until it moved to the Faculty of Arts in 2014.

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### 5.3 Faculty of Education Facilities

#### 5.3.1 Education Curriculum Resources Centre

The Education Curriculum Resources Centre, located on the first floor of the Education Building, provides materials and services to support the teaching and research programs of the Faculty.

The Curriculum Resources Centre collection includes:

- elementary and secondary school textbooks;
- teachers' resource guides;
- videos;
- DVDs;
- CDs;
- kits;
- big books.

The **Children's & Young Adult Literature Collection** contains over 16,000 fiction, non-fiction, poetry, folklore, and picture books. Students can also find course reserve materials for their education classes.

**Instructional workshops** are offered throughout the year in the Humanities and Social Sciences Library and in Faculty of Education classes. These provide an introduction to library resources and information skills that will help in preparing course assignments and writing research papers. They cover topics such 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: [www.mcgill.ca/library](http://www.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](mailto:admin.edus@mail.mcgill.ca)

Website: [www.edusmcgill.com](http://www.edusmcgill.com)

Facebook: [www.facebook.com/EdUSMcGill](http://www.facebook.com/EdUSMcGill)

### 5.3.3 Education Computer Lab & Audiovisual Loan Service

#### Computer Lab

The Faculty of Education Computer Lab is located on the third floor of the Education Building in room 328. It consists of one reservable classroom-style 35-seat PC lab and one walk-in lab with a mix of 36 PC and Mac computers. The lab houses a colour uPrint copier that can be used for scanning as well as printing. There is a charge for printing through the uPrint service, while scanning is free. Computer Lab assistants will help you get started and answer brief questions (no consulting is done over the phone or outside of the lab).

The reservable PC lab is available for courses, workshops, and individual walk-in use by students and university staff when it is not reserved (a class reservation schedule is posted near the entrance). To reserve the lab, please email [jim.harris@mcgill.ca](mailto:jim.harris@mcgill.ca). Be sure to include any special software needs well in advance of reserved class time.

#### Audiovisual Equipment Loan Service

Audiovisual equipment loans are available with priority access to the Faculty of Education community. This service operates from c 1 rh0 rvic e o 1 rh04e opm c 1 g/F1

#### **5.3.4 McGill Career Planning Service (CaPS)**

Refer to *University Regulations and Resources* > *Undergraduate* > *Student Services* > *section 1.13.3: Student Services – Downtown Campus* and *section 1.13.4: Student Services – Macdonald Campus* for further information on this service.

Career Adviser: Véronique Gingras

Telephone: 514-398-2484

Email: [career.education@mcgill.ca](mailto:career.education@mcgill.ca)

Website: [www.mcgill.ca/isa](http://www.mcgill.ca/isa)

- 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](mailto:isa.education@mcgill.ca)  
 Website: [www.mcgill.ca/isa](http://www.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 trans-disciplinary 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](mailto:claudia.mitchell@mcgill.ca)  
 Website: [www.mcgill.ca/ihdw](http://www.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: [www.youthgambling.com](http://www.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: <https://www.mcgill.ca/path/>

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## **5.4 About the Faculty of Education (Undergraduate)**

### **5.4.1 Location**

3700 McTavish Street  
Montreal QC H3A 1Y2  
Canada  
T



Undergraduate programs of initial teacher education are described here; 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 Teaching English as a Second Language \(120 credits\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.16: Bachelor of Education \(B.Ed.\) - Teaching English as a Second Language - TESL Elementary and Secondary: Teaching Greek Language & Culture \(120 credits\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.4.4: Bachelor of Education \(B.Ed.\) - Physical and Health Education \(120 credits\)](#), offered by the Department of Kinesiology and Physical Education.

[section 5.8.2.4.2: Concurrent Bachelor of Music \(Music Education\)/Bachelor of Education in Music program \(137 credits\)](#), offered jointly by the Department of Integrated Studies in Education and the Schulich School of Music.

See also [section 10.8.3.1: Concurrent Bachelor of Music \(B.Mus.\) - Major Music Education and Bachelor of Education \(B.Ed.\) - Music Elementary and Secondary \(137 credits\)](#) under *Schulich School of Music*.

A student who successfully completes any of the **above** programs (and meets other requirements set out by the *Ministère de l'Éducation, du Loisir et du Sport* (MELS)), is recommended for certification as a teacher in the province of Quebec; see [section 5.5.1.3: Quebec Teacher Certification](#).

### Other Undergraduate Education Programs

[section 5.8.4.6: Bachelor of Science \(Kinesiology\) \(B.Sc.\(Kinesiology\)\) - Kinesiology \(90 credits\)](#), offered by the Department of Kinesiology and Physical Education.

The program entails 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.

#### 5.5.1.1 General Admission Requirements

For information about admission requirements to the **B.Ed.**, **B.Sc.(Kinesiology)**, or **Concurrent B.Mus. and B.Ed.** programs, refer to the Undergraduate Admissions Guide, found at [www.mcgill.ca/applying](http://www.mcgill.ca/applying).

- Specific Mathematics and/or Science prerequisite courses are required for the **B.Ed. Secondary Science and Technology**, **B.Ed. Secondary Mathematics**, and **B.Sc.(Kinesiology)** programs, described in the Undergraduate Admissions Guide.
- Applicants to the **Concurrent B.Mus. and B.Ed.** must apply through the Schulich School of Music.

#### Letter of Intent Requirement for B.Ed. KinderConcurror B.Ed.



**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: [www.mcgill.ca/isa/student](http://www.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. TESL program involves several steps. Students first apply to the Uni



## **5.5.2 Programs of Professional Development**

The Faculty of Education offers programs of professional development in several fields. All such programs are 30 credits, unless otherwise indicated, and may be completed through part-time study. They are intended to provide an opportunity for teachers and other educators to enhance their existing knowledge and skills or to develop new ones, and thus are normally available only to those who are already certified as teachers.

Detailed information regarding general regulations, admission requirements, and program profiles for the following certificates and diplomas may be found in the section for offering departments.

### **5.5.2.1 Department of Educational and Counselling Psychology**

#### **Programs Offered**

- Certificate in Inclusive Education
- Diploma in Human Relations and Family Life Education
- Graduate Certificate in Counselling Applied to Teaching

Further information is available from:

Department of Educational and Counselling Psychology  
Education Building, Room 614  
Telephone: 514-398-4242  
Fax: 514-398-6968  
Email: *Prospective students*

## Programs for First Nations and Inuit

- : *Certificate (Cert.) First Nations and Inuit Student Personnel Services (30 credits)* (This program is of



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 university in the province of Quebec for three (3) or, exceptionally, six (6) credits per term in addition to their registration at McGill. 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 > Registration > section 1.3.7: Quebec Inter-University Transfer Agreement](#) for further information.

#### **5.6.5.7 Online Courses**

A maximum of 18 credits of courses taught as online courses may be used toward the B.Ed. or B.Sc.(Kinesiology) degree at McGill. Requests to take online courses at another university must be assessed for equivalency and approved by an academic adviser and the Internships and Student Affairs Office. Please refer to [section 5.6.5.5: Courses Taken as Transfer Credit](#) above.

#### **5.6.5.8 Courses Taken under Satisfactory/Unsatisfactory Option**

Required or complementary courses, including subject area courses for B.Ed. students, cannot be taken under this option. Please consult [University Regulations and Resources > Undergraduate > Registration > section 1.3.2.5: Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#).

#### **5.6.5.9 Course Equivalencies and Overlap**

Students will not receive additional credit toward their degree for any course that is considered equiv

### 5.6.6.2 Withdrawals

There are three course withdrawal periods, published on the University website, [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates), and in [University Regulations and Resources > Undergraduate > section 1.3.3.1: Course Withdrawal](#). Students may, under exceptional circumstances, be granted permission to withdraw after the published deadlines. Such students should contact the Internships and Student Affairs Office for further information.

Students withdrawing from a Field Experience should refer to [section 5.7: Student Teaching/Field Experience](#).

### 5.6.7 Attendance

The class attendance necessary to satisfy course requirements varies from course to course. All students are expected to apprise themselves of and meet course-specific requirements.

Attendance is particularly critical in B.Ed. programs, as these are designed to develop required professional competencies, which prepare students for the demands of the teaching profession. Students must therefore inform themselves of, and adhere to, the attendance requirements for all Education courses. Special attention should be paid to the requirements of intensive courses and professional seminars scheduled around Field Experiences. Unexcused absences may result in exclusion from a course, course failure, and/or removal from any associated Field Experience.

For Field Experiences, punctual attendance is required throughout. Absences are only excused in exceptional circumstances. Please refer to [section 5.7: Student Teaching/Field Experience](#).

Students in B.Ed. programs should be aware that some Field Experiences may begin in August, some are held in the Spring, and some may overlap with the official exam period. In addition, some professional seminars follow unique schedules. It is the student's responsibility to consult the Class Schedule on Minerva. In the case of a conflict with a final exam, students will be excused from the Field Experience or professional seminar on the exam date.

### 5.6.8 Grading

During the first week of lectures, each instructor will provide students with a course outline that should include a description of the means of evaluation to be used in the course.

For further information on Grading, see [University Regulations and Resources > Undergraduate > Student Records > section 1.5.3: Grading and Grade Point Averages \(GPA\)](#).

### 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.

2. Reread of a final exam

### **Reassessment of Course W**

#### **5.6.11.2.3 Students will be placed in Probationary Standing**

- if their CGPA falls between 1.50 and 1.99, and if they were pre

Students whose Standing is still Incomplete by the end of the Course Change period should immediately consult with the Internships and Student Affairs Office.

#### **5.6.12 Graduation Requirements**

To be eligible for a B.Ed. or the B.Sc.(Kinesiology) degree, students must fulfil all Faculty and program requirements. This includes completing the minimum credit requirements for the degree as stipulated in the letter of acceptance; obtaining a grade of C or better in all required and complementary courses; and achieving a minimum cumulative grade point average (CGP



- are the sole responsibility of the Faculty of Education and are organized by the Internships and Student Affairs Office. Under no circumstances should students make their own placement arrangements;
- must be taken in the required sequence;
- require that newly admitted and returning students follow registration procedures (see [Faculty of Education > Undergraduate > Faculty Regulations for Undergraduate Programs > section 5.6.6: Registration](#)) or risk not being placed in a host school in a given term;
- are completed in schools within English school boards or private schools in the province of Quebec in the majority of cases, with the exception of the B.Ed. TESL program, in which students are placed in Francophone school boards or private schools in the province of Quebec;
- can be specialized in some circumstances; refer to the [ISA website](#) for information regarding such opportunities (distance, special needs, resource room, adult education, etc.);
- require that students travel to their host school. Students should therefore budget time and money for this purpose;
- may begin before the first day of lectures or end after the last day of lectures;
- may continue during regularly scheduled University breaks;
- may continue through May into the Summer term (refer to the [ISA website](#) or [Minerva](#) for exact dates).

## 5.7.2 Registration for the Student Teaching/Field Experience

### 5.7.2.1 Newly Admitted Students

Newly admitted 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.

### 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 good standing with the Faculty of Education and have successfully passed the English Extra or T

must successfully pass the English Extra or

T

each Certification (EETC; EDEC 125) prior to Field Ex

outcome of the Field Experience will be evaluated on an individual basis. Student teachers must contact the following people as soon as possible on the morning of the day of their absence:

- Cooperating Teacher
- ISA Placement Coordinator (by email or telephone 514-398-7046)
- Field Supervisor

Student teachers are permitted to be absent for **religious holy days**, as outlined in McGill's Policy for the Accommodation of Religious Holy Days; see [www.mcgill.ca/importantdates/holy-days-0](http://www.mcgill.ca/importantdates/holy-days-0). Students must notify the ISA, Cooperating Teacher, and Field Supervisor before the Field Experience begins if possible, or at least two weeks before the planned absence. The missed days must be made up, usually at the end of the Field Experience.

Possible outcomes are:

- Reassignment during the same term, subject to availability of placements;
- “W” – Withdrawal;
- “D” – Student will be permitted to register for the Field Experience again when next offered;
- “F”, “J”, “KF”, “WF” – Failure in any Field Experience places the student into Unsatisfactory Standing, requiring withdrawal from the B.Ed. program.

If a student cannot continue the Field Experience due to illness, see [section 5.7.4.2: Withdrawal from Field Experience](#).

If a student wishes to end his/her Field Experience prematurely, the ISA Director will evaluate the circumstances and determine an outcome. Possible outcomes are the same as those listed above.

#### **5.7.4.2 Withdrawal from Field Experience**

- Withdrawal (with refund) for any reason must be done at least two weeks before the start of the Field Experience. The student is responsible for notifying the ISA in writing by this deadline and deregistering for the Field Experience course in Minerva.
- Students having to withdraw for any reason, including illness, from a Field Experience that begins in less than two weeks or that is already underway must immediately inform the ISA. Based on the circumstances of the withdrawal request, the ISA Director will determine the final outcome of the Field Experience and eligibility for refund.

#### **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 [www.mcgill.ca/transfercredit](http://www.mcgill.ca/transfercredit), as well as Faculty-specific information at [www.mcgill.ca/isa/student/new](http://www.mcgill.ca/isa/student/new).

### **5.7.5 Code of Professional Conduct: Code of Ethics for Student Teachers**

#### **5.7.5.1 Preamble – A Student-Centred Perspective**

- **Mandate**

A joint subcommittee consisting of members from two standing committees of the Faculty of Education (Faculty of Education Ethical Review Board and Student Standing) was created to develop a Code of Ethics for Student Teachers and to examine the ways in which this Code will be communicated to students, faculty members, and educational partners.

- **Goals and Rationale**

The interests of the two Standing Committees of the Faculty of Education in promoting appropriate ethical and professional conduct have led us to develop the following Code of Ethics for Student Teachers. This code seeks to respond to and address the following needs:

1. The Code addresses the interdependent duties, rights, and responsibilities of student teachers, faculty members, and educational partners.
2. By addressing common issues and needs, the Code seeks to articulate and make explicit ethical principles that transcend disciplinary boundaries. These principles reflect the fundamental values that are expressed in the duties, rights, and responsibilities of all involved in Teacher Education.
3. The Code requires a reasonable flexibility in the implementation of common principles. It is designed to help those involved in Teacher Education, as a matter of sound ethical reasoning, to understand and respect the contexts in which they work and accommodate the needs of others.
4. The Code seeks to encourage continued reflection and thoughtful response to ethical issues. It does not seek definitive answers to all ethical questions or situations. Rather, it seeks to outline the guiding principles to ethical conduct and to identify major issues that are essential to the development and implementation of this Code.

- **Context of an Ethics Framework for Student Teachers**

The principles and norms guiding ethical conduct are developed within an ever-evolving complex societal context, elements of which include the need for reflective action and ethical principles.

Education is premised on a fundamental moral commitment to advance and construct knowledge and to ensure human understanding and respect for

The role of the teacher and the contexts of teaching have changed. Thus, new resources (knowledge, skills, attitudes) are required to practice the profession and to meet the challenges of teaching and learning in whatever contexts student teachers may find themselves, and to engage in professional development individually and with others.

### **5.7.5.3 Ethics and Law**

“Teaching is governed by a legal and regulatory framework” (MEQ 2001, p. 120). The law affects and regulates the standards and norms of teaching behaviours in a variety of ways such as respecting privacy, confidentiality, intellectual property, and competence. Human rights legislation prohibits discrimination and recognizes equal treatment as fundamental to human dignity and well-being. Teachers should respect the spirit of the Canadian Charter of Rights and Freedoms, particularly the sections dealing with life, liberty



### **Program Directors**

Martin Drapeau – *Counselling Psychology*

Tara Flanagan – *Human Development, M.Ed. Concentrations in Educational Psychology*

Nathan Hall – *Health Professions Education, Learning Sciences*

Armando Bertone – *School/Applied Child Psychology*

Ada L. Sinacore – *Graduate Certificate in Counselling Applied to Teaching*

### **Emeritus Professors**

Mark W. Aulls; B.S.(Ball St.), M.Ed.(Ind.), Ed.D.(Georgia)

Robert J. Bracewell; B.Sc., M.A.(McM.), Ph.D.(Tor.)

Janet G. Donald; B.A., M.A.(UWO), Ph.D.(Tor.)

Florent R. Dumont; A.B.(Col.), M.S.(S. Conn. St.), Ed.D.(Mass.)

**Assistant Professors**

Adam Dubé; B.A., M.A., Ph.D.(Regina)  
 Nate Fuks; M.B.A.(York), Ph.D.(McG.)  
 Marie-Claude Geoffroy; M.Ps., Ph.D.(Montr.)  
 Bassam El-Khoury; B.Sc.(Lebanese), B.A.(C'dia), Ph.D. (Montr.)  
 Chiaki Konishi; B.Ed.(Chiba), M.Ed.(Mass.-Amh.), M.A., Ph.D.(Br. Col.)  
 Rachel Langevin; B.Sc., Ph.D.(UQAM)  
 Tina Montreuil; M.Ed.(McG.), Ph.D.(UQAM)  
 Marie-Hélène Pennestri; B.Sc., M.Ps., Ph.D.(Montr.)  
 Eve-Marie Quintin; B.Sc.(McG.), Ph.D.(UQAM) (*William Dawson Scholar*)  
 Jessica Ruglis; B.S.(Albany), M.A.T.(Union Coll.), M.P.H.(Hunter), Ph.D.(CUNY)  
 Dennis Wendt; B.Sc.(Brigham Young), M.Sc., Ph.D.(Mich.)

**Faculty Lecturers**

Karen Cohen-Gazith; B.A.(Dal.), M.A., Ph.D.(McG.)  
 Scott Conrod; B.Sc.(Sir G. Wms.), M.Ed.(McG.)

**Associate Members**

Robin Cohen; B.Sc., M.Sc., Ph.D.(McG.) (*Oncology*)  
 Reut Gruber; B.A., M.A., Ph.D.(Tel Aviv) (*Psychiatry*)  
 Suzanne King; B.A.(McG.), M.Ed., Ed.S.(James Madison), Ph.D.(Virg. Poly. Inst.) (*Psychiatry*)  
 Laurence Kirmayer; B.Sc., M.D.,C.M., Dipl. Psych.(McG.) (*Psychiatry*) (*James McGill Professor*)  
 Heather Beth MacIntosh; B.A., Ph.D.(Ott.) (*School of Social Work*)  
 Vera Romano; B.A., Dip. H.R. & F.L.E., M.Ed., Ph.D.(McG.) (*McGill Counselling Services*)  
 Brett D. Thombs; B.A.(N'western), M.A.(Ariz.), M.A., Ph.D.(Fordham Univ.) (*Psychiatry*)  
 Jeffrey G. Wiseman; B.Sc., M.A., M.D.,C.M.(McG.) (*Medicine, Royal Victoria Hospital*)

**Associate Professors (Non-Tenure Track)**

Marcia A.B. Delcourt; B.Sc.(Bloomsburg State Univ.), M.A., Ph.D.(Conn.)  
 Laura Winer; B.A., M.A., Ph.D.(C'dia) (*Teaching and Learning Services*)

**Adjunct Professors**

Sylvie Beauchamp, Dermot Bowler, Sam Bruzese, Thomas Goetz, Mi Song Kim, Marina Milyavskaya, Katherine Moxness, Eric Poitras, Nathan G. Smith, Anastassios Stalikas

**5.8.2 Integrated Studies in Education****5.8.2.1 Location****Integrated Studies in Education, Faculty of Education**

3700 McTavish Street, Room 244  
 Montreal QC H3A 1Y2  
 Website: [www.mcgill.ca/dise](http://www.mcgill.ca/dise)

**Undergraduate Programs**

Telephone: 514-398-4527

**Graduate and Certificate Programs**

Telephone: 514-398-4527

### 5.8.2.2 About the Department of Integrated Studies in Education

The Department of Integrated Studies in Education, created in September 2001, incorporates the programs and staff previously associated with the Departments of Culture and Values in Education, Educational Studies, Second Language Education, and First Nations and Inuit Education.

The Department offers four-year programs for CEGEP graduates and five-year programs for out-of-province students leading to a B.Ed. degree.

For B.Ed. program overviews, see [www.mcgill.ca/dise/progs](http://www.mcgill.ca/dise/progs).

### 5.8.2.3 Integrated Studies in Education Faculty

#### Chair

Steven Jordan

#### Director of Teacher Education Programs & Certificates, and M.A. Programs

Caroline Riches

#### Assistant Director of Undergraduate Programs

Sheryl Smith-Gilman

#### Director of First Nations and Inuit Education

James Howden

#### Assistant Director of First Nations and Inuit Education

Stephen Peters

#### Director of Ph.D. Program

Marta Kobiela

#### Assistant Director of MATL

Limin Jao

#### Director of Internships and Student Affairs, and of Graduate Certificates in Educational Leadership

Lisa Starr

#### Emeritus Professors

Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)

David Dillon; B.A.(St. Columban's), M.S.(SW Texas St.), Ph.D.(Texas-Austin)

Margaret Gillett; B.A., Dip.Ed.(Syd.), M.A.(Russell Sage), Ed.D.(Col.) (*William C. Macdonald Emeritus Professor of Education*)

John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)

Denise Lussier; B.A.(Coll. Jesus Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval) (*Post-retirement*)

Roy Lyster; B.A.(Regina), M.A.(Paris VII), B.Ed., M.Ed., Ph.D.(Tor.)

Mary H. Maguire; B.A., B.Ed., M.A.(Montr.), M.Ed., Cert. Reading(McG.), Ph.D.(Ariz.)

Anthony Paré; 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), 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 Wolforth; B.Sc.(Sheff.), M.A., Ph.D.(F n109.2e 192.976 i1 155.821 109.3r1 0 0 1 79.8031 0 0 1r1 0 0 1 22FII), M.60 0 1 79.8031t.52 521.327 11t.52 521.327 1.60



## Professors

Ratna Ghosh; C.M., B.A.(Calc.), M.A., Ph.D.(Calg.), F.R.S.C. (*William C. Macdonald Professor of Education*) (*James McGill Professor*)

Claudia A. Mitchell; B.A.(Bran.), M.A.(Mt. St. Vin.), Ph.D.(Alta.) (*James McGill Professor*)

Shaheen Shariff; B.G.S., M.A.Educ., Ph.D.(S. Fraser) (*James McGill Professor*)

## Associate Professors

Anila Asghar; M.S.(Punjab), M.A.(Col.), M.Ed., Ed.D.(Harv.)

Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)

Mindy Carter; B.A.(Dal.), B.Ed.(Lake.), M.A.(C'dia), Ph.D.(Br. Col.)

Abdul Aziz Choudry; Grad.Dip., Ph.D.(C'dia)

Steven Jordan; B.A.(Kent), M.Sc.(Lond.), Ph.D.(McG.)

Bronwen Low; B.A.(Qu.), M.A.(Br. Col.), Ph.D.(York)

Kevin McDonough; B.A., B.Ed., M.Ed.(Alta.), Ph.D.(ILL.)

Caroline Riches; B.A., M.Sc.(Alta.), Ph.D.(McG.)

Mela Sarkar; B.A., Dip.Ed.(McG.), M.A., Ph.D.(C'dia)

Annie Savard; B.Ed., M.A., Ph.D.(Laval)

Doreen Starke-Meyerring; B.Ed.(Potsdam), M.A.(N. Dakota), Ph.D.(Minn.) (*in memoriam*)

Teresa Strong-Wilson; B.A.(Calg.), B.A.(McG.), M.A., Ph.D.(Vic., BC)

Boyd White; B.A.(Sir G. Wms.), B.F.A.(C'dia), M.F.A.(Inst. Allende, Guanajuato), Ph.D.(C'dia)

Elizabeth Wood; B.F.A.(York), B.F.A.(C'dia), Dip.Ed., M.A., Ph.D.(McG.)

## Assistant Professors

Susan Ballinger; B.A.(Wash.), M.A., Ph.D.(McG.)

Christian Ehret; B.A., M.Ed.(Georgia), Ph.D.(Vanderbilt)

Allison Gonsalves; B.Sc.(UWO), M.Sc.(Guelph), Ph.D.(McG.)

Blane Harvey; B.A.(Ott.), M.A., Ph.D.(McG.)

Philip Howard; B.A.(Cornell), Dip.Ed., M.A.(McG.), Ph.D.(OISE, Tor.)

Limin Jao; B.Sc., B.Ed.(Qu.), M.A., Ph.D.(OISE, Tor.)

Marta Kobiela; B.Sc., M.Sc.(Texas A & M), Ph.D.(Vanderbilt)

Joseph Levitan; B.A.(Brandeis), M.A.(Col.), Ph.D.(Penn. St.)

Janine Metallic; B.Sc., M.Sc., Ph.D. (McG.)

#### **5.8.2.4.1 Bachelor of Education: Secondary Program (120 credits)**

The aim of the B.Ed. Secondary program is to prepare strong teachers for the secondary school level. This integrated 120-credit program (150 credits for out-of-province students) consists of academic studies to provide background depth in subjects taught in the secondary school, and professional studies in pedagogy, curriculum, and educational foundations organized around school-based field experiences. Students choose their teaching profiles from: English, Mathematics, Science and Technology, and Social Sciences (History and Citizenship, and one of Geography or Ethics and Religious Culture). Students applying to the B.Ed. Secondary in the areas of Mathematics or Science and Technology should refer to [www.mcgill.ca/applying/requirements](http://www.mcgill.ca/applying/requirements) for specific admission requirements.

For more information on each profile, see:

- *section 5.8.2.5: Bachelor of Education (B.Ed.) - Secondary English (120 credits)*
- *section 5.8.2.6: Bachelor of Education (B.Ed.) - Secondary Mathematics (120 credits)*
- *section 5.8.2.9: Bachelor of Education (B.Ed.) - Secondary Science and Technology (120 credits)*
- *section 5.8.2.7: Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture (120 credits)*
- *section 5.8.2.8: Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography (120 credits)*

#### **5.8.2.4.2 Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program (137 credits)**

This program provides students with the opportunity to obtain a Bachelor of Music degree and a Bachelor of Education degree concurrently. The two degrees are awarded during the same convocation period.

Options within the B.Ed. (Kindergarten and Elementary) program are:

- First Nations and Inuit Studies (*offered through community partners*)
- Jewish Studies
- Pédagogie de l'immersion française

For more information on each profile, see:

- [section 5.8.2.11: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education \(120 credits\)](#)
- [section 5.8.2.12: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#)
- [section 5.8.2.13: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Jewish Studies \(120 credits\)](#); (Please contact Prof. Eric Caplan for more information. Email: [eric.caplan@mcgill.ca](mailto:eric.caplan@mcgill.ca). Telephone: 514-398-6544.)
- [section 5.8.2.14: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Pédagogie de l'Immersion Française \(120 credits\)](#)

#### 5.8.2.4.4 Bachelor of Education in Teaching English as a Second Language (120 credits)

This program prepares specialist teachers to teach English as a second language (ESL) at both the elementary level (including regular and intensive ESL) and the secondary level (including regular ESL and enriched ESL). This integrated 120-credit program (150 credits for out-of-province students) consists of academic and professional components. The academic components provide students with opportunities to develop a broad liberal education and to study language and language learning from linguistic, social, cultural, and psychological perspectives. The professional components revolve around school-based field experiences, which are supported by studies in pedagogy, curriculum and educational foundations.

Prior to admission, applicants to the B.Ed. TESL program must also pass the English Language Proficiency Test (ELPT). Eligible applicants will receive email notification from the Admissions Office regarding registration for the ELPT. Please contact [advisedise.education@mcgill.ca](mailto:advisedise.education@mcgill.ca) for further information.

An option within the B.Ed. in Teaching English as a Second Language program is:

- Teaching Greek Language & Culture

For more information, see:

- [section 5.8.2.15: Bachelor of Education \(B.Ed.\) - Teaching English as a Second Language - TESL Elementary and Secondary \(120 credits\)](#)
- [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 [www.mcgill.ca/dise/grad](http://www.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 [www.mcgill.ca/dise/grad](http://www.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/scenglish>.

The Secondary English program provides students with the learning opportunities needed to become proficient English teachers.

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".

### **Freshman Program**

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in English, as well as to explore areas that are not normally taken as "teachable" subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes English literature courses that may be used toward the academic component of the Secondary English course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

CEAP 250*	(3)	Research Essay & Rhetoric
EDEC 203*	(3)	Communication in Education
EDEM 220	(3)	Contemporary Issues in Education
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 226	(3)	American Literature 2
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
RELG 207	(3)	Introduction to the Study of Religions

\* Note: Students may take either CEAP 250 OR EDEC 203 for credit but not both

### **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 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 361	(3)	Teaching Secondary English 1
EDES 461	(3)	Teaching Secondary English 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)

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

GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
		Introduction to Y

A minimum of 6 credits at the 300 level or higher, chosen from the English Department undergraduate complementary course list (<http://www.mcgill.ca/english/undergrad>) or the following list:

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
GERM 259	(3)	Introduction to German Literature 1
GERM 260	(3)	Introduction to German Literature 2
JWST 206	(3)	Introduction to Yiddish Literature
JWST 225	(3)	Literature and Society
LLCU 220	(3)	Introduction to Literary Analysis
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

#### **Cultural Studies (6 credits)**

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.

#### **5.8.2.6e8. Bachelor of Education (B.Ed.) - Secondary Mathematics (120 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/secmath>.

The Secondary Mathematics program provides students with the learning opportunities needed to become proficient Mathematics teachers.

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".

### Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in Mathematics, as well as to explore areas that are not normally taken as teachable subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

Students in the Secondary Mathematics program must complete three Math prerequisite courses in their Freshman year, MATH 133, MATH 140, and MATH 141.

In addition, students select courses from the recommended list below or other courses in consultation with the Program Adviser. The French Second Language (FRSL) courses suggested require a placement test to determine the appropriate course level.

CEAP 250	(3)	Research Essay & 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
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 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 & 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

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\* Should be taken in Year 1 or Year 2

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/secsocsci>.

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 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

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 & 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:



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

#### 5.8.2.8 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography (120 credits)

Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography 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/secsocsci>.

The Secondary Social Sciences - History and Citizenship, Geography program provides students with the learning opportunities needed to become proficient Social Science teachers with a strong knowledge base in History and Geography.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Ministry (Education). 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 a teachable subject area, as well as to explore areas that are not normally taken within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes History, Geography, and Religious Studies courses that may be used toward the academic component of the Secondary Social Sciences course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

CEAP 250	(3)	Research Essay & 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
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems

, and Religious Studies 0 1 67.52 22 56.1019-2020, (graduate)Tj1 0 ion.72 67.52 22 56.(Educat184.436 32 C(e.g.,emp0(Gn11).t5B1111114heC6w11L) co

GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 214	(3)	Early Modern Europe
HIST 215	(3)	Modern Europe
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism

**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 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 334	(3)	Teaching Secondary Social Studies 1
EDES 350	(3)	Classroom Practices
EDES 434	(3)	Teaching Secondary Social Studies 2
EDFE 200	(2)	First Field Experience (K/Elem & 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 and Citizenship, Geography Subject Area (51 credits)**





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

## Geography

18 credits from:

ENVR 202	(3)	The Evolving Earth
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 205	(3)	Global Change: Past, Present and Future
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
GEOG 301	(3)	Geography of Nunavut
GEOG 309	(3)	Geography of Canada
GEOG 311	(3)	Economic Geography
GEOG 331	(3)	Urban Social Geography

Note: In consultation with the Program Adviser, students may choose their Geography courses from those that comprise the B.A. Minor Concentration Geography program.

## Electives (6 credits)

### 5.8.2.9 Bachelor of Education (B.Ed.) - Secondary Science and Technology (120 credits)

The Bachelor of Education (B.Ed.) - Secondary Science and Technology 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. F

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 139	(4)	Calculus 1 with Precalculus
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

### 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 & 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
EDEC 247	(3)	Policy Issues in Quebec 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 335	(3)	Teaching Secondary Science 1
EDES 350	(3)	Classroom Practices
EDES 435	(3)	Teaching Secondary Science 2
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)

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 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 of Organisms
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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

Introductory Physical Chemistry 1: Thermodynamics

BIOL 352	(3)	Dinosaur Biology
ENVB 305	(3)	Population & Community Ecology
EPSC 334	(3)	Invertebrate Paleontology

#### 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 214	(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)	Integrated Inorganic/Organic Laboratory
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 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern Physics
PHYS 446	(3)	Majors Quantum Physics
PHYS 447	(3)	Applications of Quantum Mechanics

#### The Technological World

Students select a minimum of 3 credits to a maximum of 12 credits from the following list:

COMP 102*	(3)	Computers and Computing
COMP 202**	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 280*	(3)	History and Philosophy of Computing
COMP 364	(3)	Computer Tools for Life Sciences
MATH 204	(3)	Principles of Statistics 2

\* Note: Students may take either COMP 102 or COMP 280, but not both.

\*\* Note: Credit will not be given for COMP 102 if it is taken concurrently with or after COMP 202.

#### Elective Courses (6 credits)

### 5.8.2.10 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 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

### 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 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)

3 credits from:

EDEE 355	(3)	Classroom-based Evaluation
EDPE 304	(3)	Measurement and Evaluation

#### 5.8.2.10.1 Admissions to the Concurrent B.Mus. (Major Music Education) and B.Ed. in Music Program

Applicants without a completed Bachelor of Music degree who wish to pursue a teacher education degree specializing in Music should apply to the Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program. Students who have partially completed a Bachelor of Music program are eligible to apply for Advanced Standing in the Concurrent program.

Application to the Concurrent B.Mus./B.Ed. program may be made online at [www.mcgill.ca/applying](http://www.mcgill.ca/applying). Information is available on that site or may be obtained from:

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](mailto:undergraduateadmissions.music@mcgill.ca)  
Website: [www.mcgill.ca/music/admissions/undergraduate](http://www.mcgill.ca/music/admissions/undergraduate)

Those who have completed a Bachelor of Music degree from a North American university should apply to the Bachelor of Education in Music program in the Faculty of Education and, if eligible, will receive Advanced Standing for applicable courses. Application to the Bachelor of Education in Music may be made online at [www.mcgill.ca/applying](http://www.mcgill.ca/applying). Information is available on that site or may be obtained from:

Service Point  
Enrolment Services, McGill University  
3415 McTavish Street  
Montreal QC H3A 0C8  
Telephone: 514-398-7878  
Website: [www.mcgill.ca/servicepoint](http://www.mcgill.ca/servicepoint)

Program details are available from:

Department of Integrated Studies in Education  
Professor Caroline Riches, Program Director  
Telephone: 514-398-4527 ext. 00539  
Email: [caroline.riches@mcgill.ca](mailto:caroline.riches@mcgill.ca)

or

Telephone: 514-398-4527  
Email: [advisedise.education@mcgill.ca](mailto:advisedise.education@mcgill.ca)  
Website: [www.mcgill.ca/dise](http://www.mcgill.ca/dise)

#### 5.8.2.11 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education (120 credits)

The Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education 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 Kindergarten and Elementary Education program leads to certification to teach children between the ages of 5 and 11 years (kindergarten and elementary school). The program consists of academic and professional courses, as well as studies in pedagogy and educational foundations. Each year of the program provides a school-based practicum.

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."

#### 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 should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts Faculty), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), and SOCI (Sociology). For 200-level courses, information about any required prerequisites is found in the Minerva Class Schedule by "clicking on" the course CRN for registration. Check prerequisites before registering.

CEAP 250	(3)	Research Essay & Rhetoric
EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
EDES 366	(3)	Literature for Young Adults
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
MATH 111	(3)	Mathematics for Education Students
RELG 207	(3)	Introduction to the Study of Religions

#### Required Courses (84 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and 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 273	(3)	Elementary School Science 2
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 & 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 (12 credits)**

12 credits of courses selected as described below:

**Equity Education**

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

**Ethics, Values, or Religion**

3 credits from:

EDER 309	(3)	The Religious Quest
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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
	(3)	American Literature 1

### Ethics and Religious Culture

Students may select up to 9 credits from this list. Students may also choose other Religious Studies (RELG) courses with the permission of the Program Adviser.

\* Note: Courses marked with an asterisk ("\*") may be used as Ethics and Religious Culture courses or as Social Studies.

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
GSFS 200*	(3)	Feminist and Social Justice Studies
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 240*	(3)	The Holocaust
PHIL 200	(3)	Introduction to Philosophy 1
PHIL 230	(3)	Introduction to Moral Philosophy 1
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)	Sexual Ethics

### 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)	Litt�ratie et litt�rature 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



\* Note: Courses marked with an asterisk ("\*") may be used as Ethics and Religious Culture or Social Studies courses.

ANTH 202	(3)	Socio-Cultural Anthropology
CANS 200	(3)	Introduction to the Study of Canada
CANS 310	(3)	Canadian Cultures: Context and Issues
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GSFS 200*	(3)	Feminist and Social Justice Studies
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
JWST 240*	(3)	The Holocaust
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada

### **Electives (6 credits)**

#### **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

EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEC 591	(3)	Cultural Values and Socialization
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 273	(3)	Elementary School Science 2
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 283	(3)	Social Studies Pedagogy
EDEE 325	(3)	Children's Literature
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDEE 355	(3)	Classroom-based Evaluation
EDER 309	(3)	The Religious Quest
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & 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)
EDKP 241	(3)	Indigenous Physical Activities
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 247	(3)	Second Language Education in Indigenous Communities
EDSL 300	(3)	Foundations of L2 Education

### **Complementary Courses (9 credits)**

9 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
ITj1 0 70		Algonquin Heritage 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 - Complementary Component**

3 credits from:

EDEC 233	(3)	Indigenous Education
EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions

**5.8.2.13 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Jewish Studies (120 credits)**

Bachelor of Education (B.Ed.) - Kindergarten and Elementary Jewish Studies 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. Kindergarten and Elementary program

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 should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level



#### Competency in French

Students wishing to follow the Kindergarten and Elementary Pédagogie de l'Immersion Française major must demonstrate a sufficient level of competency in French by passing the written and oral French Language Proficiency Test (FLPT) set by the Department of Integrated Studies in Education.

#### Pédagogie de l'Immersion Française (PIF) Freshman Year (U0)

Candidates from outside of Quebec, are required to complete the Freshman en français year (offered through the Faculty of Arts). Students undertaking the Freshman en français year can also be conditionally accepted into the PIF program, if they have a strong background in French (ex. Grade 12 French Immersion Program) and achiev



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".

The Department is committed to supporting students in the development and creation of their individual professional portfolios throughout their program.

### **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 subject field, as well as to e



EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 210	(1)	First Professional Seminar
EDSL 215	(3)	Effective French Communication for ESL Teachers 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

### Complementary Courses (21 credits)

21 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

12 credits of English and other complementary courses distributed as follows:

6-9 credits of English (ENGL) courses

And

3-6 credits of other complementary courses including

Foreign language courses (0-6 credits)

Other Complementary courses (0-6 credits)

## **Electives (6 credits)**

6 credits

### **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)**

This 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. This program also prepares students to teach in Hellenic school settings. Students are encouraged to participate in a 'study away' semester in Greece.

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".

The Department is committed to supporting students in the development and creation of their individual professional portfolios throughout their program.

#### **Additional Entrance and Language Requirements**

All applicants must pass the English Language Proficiency Test (ELPT) set by the Department of Integrated Studies in Education and pass a Greek language proficiency test set by the Department of Classical Studies prior to being offered admission. Eligible applicants will be contacted by email with information on how to register for these two tests.

## **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 subject field, as well as to explore areas that are not normally taken as academic subjects within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In consultation with the Program Adviser, students may select 09 423.02o3.0.02 0 1P2 (including re

EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDES 350	(3)	Classroom Practices
EDFE 209	(2)	First Field Experience (TESL)
EDFE 255	(3)	Second Field Experience (TESL)
		Third Field Experience (TESL)

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

### 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

CLAS 301 (3) Ancient Greek Literature and Society

CLAS 404 (3) Classical Tradition

HIST 205 (3) Ancient Mediterranean History

HIST 369 (3) Greek History: Early Greece

PHIL 345 (3) Greek Political Theory

PHIL 353 (3) The Presocratic Philosophers

PHIL 355 (3) Aristotle

PHIL 452 (3) Later Greek Philosophy

PHIL 454 (3) Ancient Moral Theory

POLI 333 (3) Western Political Theory 1

### 5.8.3 Programs for First Nations and Inuit

The following programs are offered in Indigenous communities for First Nations and Inuit teachers by McGill's Faculty of Education.

Information may be obtained by contacting:

**Office of First Nations and Inuit Education (OFNIE), Faculty of Education**

3700 McTavish Street, Room 244

Montreal QC H3A 1Y2

Telephone: 514-398-4527

Website: [www.mcgill.ca/dise/ofnie](http://www.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 (24 credits)**

EDEC 203	(3)	Communication in Education
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

12 credits of practicum courses:

EDEC 201	(1)	First Year Professional Seminar
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 300	(5)	Indigenous Education Field Experience

**Complementary Courses (36 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**

EDEC 289	(3)	Inuktitut Orthography and Grammar
EDEC 342	(3)	Intermediate Indigenous Language
EDEC 344	(3)	Advanced Indigenous Language

**Mi'gmaq**

EDEC 237	(3)	Mi'gmaq Heritage Language 1
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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

30 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**

30 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
EDEE 253	(3)	Kindergarten Classroom Pedagogy
EDEE 270	(3)	Elementary School Science
EDEE 273	(3)	Elementary School Science 2
		Geography

EDEC 262	(3)	Media, Technology and Education
EDEE 223	(3)	Language Arts
EDEE 245	(3)	Orientation to Education
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	(2)	Track and Field
EDKP 218	(2)	Volleyball
EDKP 223	(2)	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**

30 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)

14EDEE 353based on classroom-based Evaluation

**5.8.3.1.1 Admission to the Certificate in Education for First Nations and Inuit**

**5.8.3.2 Certificate (Cert.) Indigenous Language and Literacy Education (30 credits)**

**Required Courses (6 credits)**

**Complementary Courses (18Tcredits)**

**Languag      ses**

**Education Courses**



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, students will be Indigenous teachers employed in local schools. They must be mature students, or hold a Secondary V diploma or equivalent. The right of final decision for acceptance of candidates rests with McGill.

#### 5.8.3.3 Certificate (Cert.) Middle School Education in Indigenous Communities (30 credits)

This 30-credit program focuses on developing the particular skills and abilities required of the Indigenous teacher in the middle school of his/her community. It does not lead to provincial certification. Rather, it prepares Indigenous teachers, who are bilingual or have some knowledge of their Indigenous language and who have already established themselves as teachers, to teach students at this level in ways that are developmentally and culturally appropriate. The program focuses on the particular psychological, emotional, and social needs of Aboriginal adolescents and the teacher's role in facilitating the transition between elementary and high school.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers program if the requirements for the B.Ed. are fulfilled.

### Required Courses (15 credits)

EDEC 245	(3)	Middle School Teaching
EDEC 246	(3)	Middle School Curriculum
EDFE 210	(3)	Middle School Practicum
EDPE 377	(3)	Adolescence and Education

3 credits from the list below:

EDEC 302	(3)	Language and Learning - Curriculum
EDSL 305	(3)	L2 Learning: Classroom Settings

### Major Subject Area (6 credits)

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)

<del>EDEC 203</del>	(3)	Communication in Education
EDEC 222	(3)	Personnel Management and Group Skills
EDEC 311	(6)	Resource Management
EDEC 312	(3)	Practicum in Educational Leadership
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions

#### Complementary Courses (12 credits)

### 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 Education, Moral and Religious Education, Social Studies, Educational Technology, or an Indigenous language.

#### Cultural Development (15 credits)

15 credits of courses that will enhance the candidate's cultural development. These are to be chosen in consultation with the Director of Programs in First Nations and Inuit Education.

#### Education Concentration (30 credits)

30 credits. Normally the Education concentration is completed within the Certificate in Education for First Nations and Inuit.

#### Electives (15 credits)

15 credits selected by the candidate after consultation with the Director of Programs in First Nations and Inuit Education.

#### 5.8.3.5.1 Admission Requirements for the B.Ed. for Certified Teachers

Applicants apply on the basis of having completed the Certificate in Education for First Nations and Inuit or equivalent and must have the continued support of their education authority to attend the field-based program. The right of final decision for acceptance of candidates rests with McGill.

### 5.8.3.6 Certificate (Cert.) First Nations and Inuit Student Personnel Services (30 credits)

This program is offered by the Department of Educational and Counselling Psychology through First Nations and Inuit Education.

This 30-credit program is designed to provide Indigenous school personnel advisers with a training program that will enable them to learn about the principles and practice of personnel services as generally applied in educational settings, to help Indigenous student personnel advisers develop their personal skills, and to modify or adapt their services and the content to best suit the cultural and educational needs of Indigenous students; to encourage Indigenous student personnel advisers to take leadership in developing educational programs that address the social needs of their communities, to upgrade their academic qualifications and professional development; and to develop and make available, in English and in the languages of instruction, collections of professional and scholarly knowledge about students' needs, and services in Indigenous communities.

Bearers of this certificate will be qualified to work as educational and school personnel advisers within the employ of an Indigenous educational authority.

#### Required Courses (21 credits)

EDPC 201	(3)	Introduction to Student Advising
EDPC 202	(3)	Helping Skills Practicum 1
EDPC 203	(3)	Helping Skills Practicum 2
EDPC 205	(3)	Career/Occupational Development
EDPC 208	(3)	Native Families' Dynamics
EDPC 209	(3)	Basic Crisis Intervention Skills
EDPC 210	(3)	Field Experience

**Complementary Courses (9 credits)**

9 credits selected from the list below or any other suitable course approved by the Program Adviser.

Registration in EDEM 502, EDKP 204, or any other courses offered by departments other than Educational and Counselling Psychology, or in other programs of this Department is dependent on availability (e.g., through a concurrently offered program) or through an arrangement made with that department or program. The Program Adviser will attempt to make these contacts whenever required.

Indigenous F



Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Ministère de l'Éducation, et L'Enseignement supérieur (MEES). 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**

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 recommended: history, geography, English, or mathematics.

From the "Required Courses" list, Freshman students take the 0-credit course EDEC 215 English Language Requirement. In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses.

CEAP 250	(3)	Research Essay & Rhetoric
EDEC 202	(3)	Effective Communication
EDEM 220	(3)	Contemporary Issues in Education

### **Required Courses (102 credits)**

EDEC 215	(0)	English Exam for Teacher Certification
EDEC 247	(3)	Policy Issues in Quebec Education
EDEC 260	(3)	Philosophical Foundations
EDFE 246	(3)	First Field Experience (Physical Education)
EDFE 373	(3)	Second Field Experience (Physical Education)
EDFE 380	(7)	Third Field Experience (Physical Education)
EDFE 480	(7)	Fourth Field Experience (Physical Education)
EDKP 100	(3)	Introduction to Physical and Health Education in Quebec
EDKP 204	(3)	Health Education
EDKP 208	(3)	Biomechanics and Motor Learning
EDKP 213	(1)	Aquatics
		Standard First Aid/Cardio-Pulmonary Resuscitation Le

EDKP 448	(3)	Exercise and Health Psychology
EDKP 494	(3)	Physical Education Curriculum Development
EDKP 498	(3)	Sport Psychology
EDPE 300	(3)	Educational Psychology

### Complementary Courses (6 credits)

6 credits selected as specified below:

#### Multicultural Education

3 credits from:

EDEC 233	(3)	Indigenous Education
EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

#### Media, Technology, Computers and Education

3 credits from:

EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating Educational Technology in Classrooms
EDPT 204	(3)	Creating and Using Media for Learning

### Electives (12 credits)

12 credits chosen from any of the University's course offerings to contribute to the student's academic proficiency and professional preparation. Students are encouraged to choose as they wish. However, beware that some courses have restrictions, pre-requisites and/or enrollment limitations.

#### 5.8.4.5 Bachelor of Science (B.Sc) (Kinesiology) - Minor in Entrepreneurship (18 credits)

**\*\*NEW PROGRAM\*\***

This Minor is a collaboration of the Department of Kinesiology and Physical Education and the Desautels Faculty of Management. The program will demonstrate 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 interdisciplinary and integrative. Many courses in the Minor will address a mix of students from across multiple McGill faculties.

This Minor is restricted to students who have completed one year of university studies with a minimum CGPA of 3.0. The Minor has limited enrolment; students should contact the Student Advising Office to apply for admission. Students in this Minor are not permitted to take the Desautels Minor in Management (for Non-Management Students).

#### Required Courses (12 credits)

INTG 201	(3)	Integrated Management Essentials 1
INTG 202	(3)	Integrated Management Essentials 2
MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 364	(3)	Entrepreneurship in Practice

#### Complementary Courses (6 credits)

6 credits from the following:

BUSA 465	(3)	Technological Entrepreneurship
EDKP 301	(3)	Kinesiology Internship 1
MGPO 438	(3)	Social Entrepreneurship and Innovation
MIMM 387	(3)	The Business of Science

#### **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



ANAT 315	(3)	Clinical Human Musculoskeletal Anatomy
ANAT 316	(3)	Clinical Human Visceral Anatomy
CHEM 212	(4)	Introductory Organic Chemistry 1
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 Physical

EDKP 446	(3)	Physical Activity and Ageing
EDKP 449	(3)	Exercise Pathophysiology 2
EDKP 451	(3)	Personal Trainer Practicum
EDKP 452	(3)	Fitness & Lifestyle Consulting
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 503	(3)	Bioenergetics and the Lifespan

### **Elective Courses (14 credits)**

To be chosen in consultation with the Program Director or Student Adviser.

#### **5.8.4.7 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology - Honours (90 credits)**

The Honours version of 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 Kinesiology - Honours program offers particularly strong students aspiring to continue their studies at the graduate level the opportunity to pursue more advanced coursework. The program requires the completion of a research project under the direction of a professor during the final year. 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: chosen in consultation with the Program Director or Student Adviser.

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 (73 credits)**

In addition to the 61 credits of required courses for the Major, Honours students complete EDKP 454 "Honours Research Practicum" and EDKP 499 "Undergraduate Honours Research Project."

ANAT 315	(3)	Clinical Human Musculoskeletal Anatomy
ANAT 316	(3)	Clinical Human Visceral Anatomy
CHEM 212	(4)	Introductory Organic Chemistry 1
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 Health
EDKP 350	(3)	Physical Fitness Evaluation Methods
EDKP 395	(3)	Exercise Physiology
		Adapted Physical Acti

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)	Exercise Pathophysiology 2
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)	Bioenergetics and the Lifespan
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.

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## 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 and Applied Mechanics
- Electrical and Computer Engineering
- Mechanical Engineering
- Mining and Materials Engineering

**Schools**

- The Peter Guo-hua Fu School of Architecture

## Schools

Urban Planning

## Institutes

Trottier Institute for Sustainability in Engineering and Design (TISED) (Website: [www.mcgill.ca/tised](http://www.mcgill.ca/tised))

McGill Institute for Advanced Materials (MIAM) (Website: [www.mcgill.ca/miam](http://www.mcgill.ca/miam)) (established by the Faculties of Engineering and Science)

McGill Institute for Aerospace Engineering (MIAE) (Website: [www.mcgill.ca/miae](http://www.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 [www.mcgill.ca/car](http://www.mcgill.ca/car)



**6.5 About Engineering (Undergraduate)**

**6.5.1 Location**

**Faculty of Engineering**

Macdonald Engineering Building  
817 Sherbrooke Street West  
Montreal QC H3A 0C3  
Canada  
Telephone: 514-398-7250  
Faculty website: [www.mcgill.ca/engineering](http://www.mcgill.ca/engineering)

The McGill Engineering Student Centreald Engineering Buildin305.52 390.161 Tm( (Student )Tj1 0 0 1 236.576 390.161 Tm(Af)Tj1 0 0 1 244.92 390.161 Tm(f)



The B.Eng. programs are accredited by the Canadian Engineering Accreditation Board (CEAB) of Engineers Canada, with the sole exception of the new Bioengineering program (see note below). Our accredited programs fulfil the **academic** requirements for admission to the provincial engineering professional organizations. Engineers Canada has also negotiated agreements with engineering organizations in other countries to grant Canadian licensed engineers the same privileges accorded to professional engineers in those countries. For more information, visit the Engineers Canada website at [www.engineerscanada.ca](http://www.engineerscanada.ca).

To become a professional engineer in Canada, a graduate must pass an examination on legal aspects and on the principles of professional practice, and acquire two to four years of engineering experience, depending on the province. Only persons duly registered may use the title “engineer” and perform the professional activities reserved for engineers by provincial laws and regulations.

In Quebec, the professional engineering body is the *Ordre des ingénieurs du Québec* (OIQ). In order to better prepare new graduates for the practice of their profession, McGill organizes seminars in cooperation with the OIQ on various aspects of the profession. The OIQ also has a student section. For more information, visit the OIQ website at [www.oiq.qc.ca](http://www.oiq.qc.ca).



**Note Regarding the Accreditation Status of the B.Eng. Bioengineering Program:** Accreditation for new undergraduate engineering programs in Canada can only be granted by CEAB after students have graduated from the program. Following normal procedures for the accreditation of new engineering programs, the B.Eng. Bioengineering program at McGill University will undergo a formal accreditation review and site visit during the final year of study of its first cohort of students. For more information on the accreditation status of the Bioengineering program, please see the [Department of Bioengineering website](#).

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## 6.7 Admission Requirements

The Faculty of Engineering offers programs leading to the degrees of B.Eng. and B.Sc.(Arch.). Enrolment in Engineering programs is limited. For detailed information on admissions requirements, see the *Undergraduate Admissions Guide* at [www.mcgill.ca/applying](http://www.mcgill.ca/applying).

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## 6.8 Student Progress

The length of the B.Eng. and B.Sc.(Arch.) programs varies depending on the program and basis of admission. Yোগressogrs



**Major Programs**

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.)  
Software Engineering (B.S.E.)

**Honours Programs**

Electrical Engineering (B.Eng.)  
Mechanical Engineering (B.Eng.)

**Minors**

Aerospace Engineering  
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. Internships will be recognized

on your transcript as one or more non-credit courses entitled “Industrial Practicum”. Successful completion of an internship of eight months or more qualifies you to graduate with the Internship Program designation on your transcript.

### 6.11.1 Student Eligibility

To participate in the Engineering Internship Program, you must:

- have a CGPA of 2.00 or higher;
- be in good financial standing with the University;
- obtain approval from the Engineering Career Centre before registering for or starting your internship;
- be registered full-time in your program before and after your internship;
- remain a degree candidate while on internship;
- return to complete your undergraduate degree at McGill, with a minimum of 12 credits remaining in your program after your internship (i.e., you are not allowed to complete your degree during your internship).

Internship students will receive an automatic extension for the completion of their studies.

International students are eligible (a few restrictions may apply).

For more information, see [www.mcgill.ca/careers4engineers](http://www.mcgill.ca/careers4engineers) or send an email to [careers4engineers@mcgill.ca](mailto:careers4engineers@mcgill.ca).



#### **Important Information:**

- While on internship, you are expected to complete any deferrals you may have.

- 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 [www.mcgill.ca/architecture/programs/professional/workexperience](http://www.mcgill.ca/architecture/programs/professional/workexperience)).

Further information on the M.Arch. (Professional) program and application procedures is available at [www.mcgill.ca/architecture](http://www.mcgill.ca/architecture).

#### 6.12.1.4.1 Student Exchanges

A limited number of qualified students may participate in an exchange with schools of architecture at other universities that have agreements with the McGill School of Architecture, for a maximum of one term in the second year of the B.Sc.(Arch.) program. These include the following:

- Università Iuav di Venezia (Venice, Italy);
- Fakultät für Raumplanung und Architektur, Technische Universität Wien (Vienna, Austria);
- Universitè Catholique de Louvain (Louvain, Belgium)

## Graduate Program Directors

David Theodore

## Emeritus Professors

Bruce Anderson; B.Arch.(McG.), M.Arch.(Harv.), F.R.A.I.C., O.A.Q.

Derek Drummond; B.Arch.(McG.), F.R.A.I.C., O.A.Q., O.A.A. (*William C. Macdonald Emeritus Professor of Architecture*)

Adrian Sheppard; B.Arch.(McG.), M.Arch.(Yale), A.A.P.P.Q., F.R.A.I.C., O.A.Q.

Radoslav Zuk; B.Arch.(McG.), M.Arch.(MIT), D.Sc.(U.A.A.), F.R.A.I.C., O.A.Q., O.A.A.

## Professors

Annamarie Adams; B.A.(McG.), M.Arch., Ph.D.(Calif., Berk.), M.R.A.I.C. (*Stevenson Chair in the History and Philosophy of Science*)

Vikram Bhatt; N.Dip. Arch.(Ahmed.), M.Arch.(McG.), M.R.A.I.C.

Martin Bressani; B.Sc.(Arch.), B.Arch.(McG.), M.Sc.(Arch.)(MIT), D.E.A., Docteur(Paris IV), O.A.Q. (*William C. Macdonald Professor of Architecture*)

Avi Friedman; B.Arch.(Technion), M.Arch.(McG.), Ph.D.(Montr.), O.A.Q., I.A.A.

Kiel Moe; B.Arch.(Cinc.), M.Arch.(Virg.), M.Des.(Harv.) (*Gerald Sheff Chair in Architecture*)

Alberto Pérez-Gómez; Dipl.Eng.Arch.(Nat. Pol. Inst. Mexico), M.A., Ph.D.(Essex), M.R.A.I.C. (*Saidye Rosner Bronfman Professor of Architectural History*)

## Associate Professors

David Covo; B.Sc.(Arch.), B.Arch.(McG.), F.R.A.I.C., O.A.Q.

Michael Jemtrud; B.A., B.Sc., B.Arch.(Penn. St.), M.Arch.(McG.), M.R.A.I.C.

Nik Luka; B.A.A.(Ryerson), M.Arch.(Laval), Ph.D.(Tor.), M.C.I.P.

David Theodore; B.A., B.Sc.(Arch.), B.Arch., M.Arch.(McG.), Ph.D.(Harv.) (*Canadian Research Chair in Architecture, Health, and Computation*)

Ipek Türeli; B.Arch.(Istanbul), 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)

Theodora Vardouli; Dipl.Arch.Eng., M.Sc.(Athens), Ph.D., S.M.Arch.S.(MIT)

## Professor of Practice

Howard Davies (*Clifford C.F. Wong Professor of Practice*)

Peter Guo-hua Fu

## Adjunct Professors

Julia Gersovitz, Andrew King, Conor Sampson

## Course Lecturers

Vedanta Balbahadur, Morgan Carter, Rinm(ers)Tj/F1 8.1 Tf5ae5505 224..224stgi2e 0.9216 0.84Lau; B.Damme Gonnhair in the Histo204 224.96 Tmvillej1 0 0 1 142.3





Telephone: 514-398-3647

Fax: 514-398-7379

Email: [studentaffairs.bioeng@mcgill.ca](mailto:studentaffairs.bioeng@mcgill.ca)

Website: [www.mcgill.ca/bioengineering](http://www.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 undergraduate program, admitting its first cohort of students. The program is designed to provide students with fundamental knowledge in natural sciences, engineering, and mathematics, as they relate to the field of bioengineering. Those pursuing an undergraduate degree in Bioengineering may select courses in one of the following three streams:

- Biological materials and mechanics
- Biomolecular and cellular engineering
- Biomedical, diagnostics, and high throughput screening engineering

### **6.12.2.3 Bioengineering Faculty**

#### **Chair**

Dan V. Nicolau

#### **Professors**

Dan V. Nicolau; B.Eng., M.Eng.(Poly. Univ. Bucharest), M.S.(Acad. Economic Studies, Bucharest), Ph.D.(Poly. Univ. Bucharest)

International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see [www.mcgill.ca/engineering/student/sao/newstudents](http://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

34ud. Tm(Linear )Tj1 0 0 1 .(3)H 133 Linear Algebra and Geometry

34ud. Tm(Linear )Tj38.24 Tm(3H 140)Tj1 0 0 1 165.864 622.52 Tm(Calculus 2)Tj1 0 0 1 70.52 622.52 Tm(4)Tj1 0 0 1 70.52 622.52 Tm(34ud. Tm(Linear )Tj22.

CHEM 212\*\*3) (4) Introductory Organic Chemistry 1



BIEN 390	(3)	Bioengineering Laboratory
BIEN 470D1	(3)	Bioengineering Design Project
BIEN 470D2	(3)	Bioengineering Design Project
BIEN 471	(2)	Bioengineering Research Project

### **Complementary Courses**

39-40 credits

### **Bioengineering Complementary Courses**

30-31 credits

Starting in the third year (second year for CEGEP students) (Year 2), students will need to take 30-31 credits of courses to upgrade their general knowledge of Bioengineering. Students are required to choose all courses in one of the three streams of bioengineering knowledge and practice: 1) Biological Materials and Mechanics (31 credits); 2) Biomolecular and Cellular Engineering (30 credits); or 3) Biomedical, Diagnostics, and High Throughput Screening Engineering (30 credits).

### **Stream 1: Biological Materials and Mechanics (31 credits)**

Molecular, Cellular and

BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BIEN 560	(3)	Biosensors
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 367	(3)	Instrumental Analysis 1
ECSE 415	(3)	Intro to Computer Vision

### 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](http://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)ogical SystemsSh03r00na1 0 0 1 165.813 401..523 Tm(v)Tj1 0 0 QmSystemsSh03r00na1 0M5Group B list.v

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: [www.mcgill.ca/importantdates](http://www.mcgill.ca/importantdates).

\*\* 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 langu1 6.73gu1 6./ims, psee the INouradvisnotheTG 2McG/imeersFrankTw1 0 0 1 67.52 427.02 02



## Professors

Sylvain Coulombe; B.Sc., M.Sc.A.(Sher.), Ph.D.(McG.), ing. (*Gerald Hatch Faculty Fellow*)

Richard L. Leask; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Tor.), P.Eng.

Milan Maric; B.Eng.Mgt.(McM.), Ph.D.(Minn.), P.Eng.

Jean-Luc Meunier; Dipl.Ing.(EPFL), M.Sc., Ph.D.(INRS, Queb.), ing.

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 116-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-students> and select your term of admission.

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

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

24 credits

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 234	(3)	Topics in Organic Chemistry
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 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

Chemical Engineering Principles 1

CHEE 400	(3)	Principles of Energy Conversion
CHEE 401	(3)	Energy Systems Engineering
CHEE 423	(3)	Chemical Reaction Engineering
CHEE 440	(3)	Process Modelling
CHEE 453	(4)	Process Design
CHEE 455	(3)	Process Control
CHEE 456	(3)	Design Project 1
CHEE 457	(5)	Design Project 2
		Biochemical Engineering





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**

\*\* 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 582 and CHEE 584 comprise a **Polymeric Materials** course sequence, while courses CHEE 380 and CHEE 484 present fundamental aspects of materials science and engineering, respectively. Additional courses in the polymer materials area are available in the Chemistry Department (e.g., CHEM 574). The Department has considerable expertise in the polymer area.

Courses CHEE 370 and CHEE 474 make up a sequence in **Biochemical Engineering and Biotechnology**. Students interested in this area may take additional courses, particularly those offered by the [section 6.12.2: Bioengineering](#) (Faculty of Engineering); by the [section 2.7.4: Department of Food Science and Agricultural Chemistry](#) (Faculty of Agricultural and Environmental Sciences); and courses in biochemistry and microbiology. The food, beverage, and pharmaceutical industries are large industries in the Montreal area, and these courses are relevant to these industries and to the new high-technology applications of biotechnology.

A third sequence of courses is offered in **Energy**, comprising CHEE 400 Principles of Energy Conversion and CHEE 401 Energy Systems Engineering. Additional courses that offer topics related to energy are CHEE 511 Catalysis for Sustainable Fuels and Chemicals and CHEE 541 Electrochemical Engineering.

The fourth area in which there is a sequence of courses is **Pollution Control**. The Department offers three courses in this area: CHEE 521, CHEE 591, and CHEE 593. As some water pollution control problems are solved by microbial processes, course CHEE 474 is also relevant to the pollution control area. Additional courses in this area are listed in the [section 6.12.10.10: Bachelor of Engineering \(B.Eng.\) - Minor Environmental Engineering \(21 credits\)](#).

A Minor in Biotechnology is also offered by the Faculties of Engineering and Science with emphasis on molecular biology and chemical engineering processes. A full description of the program appears in the [section 6.12.10.4: Bachelor of Engineering \(B.Eng.\) - Minor Biotechnology \(for Engineering Students\) \(24 credits\)](#).



**Note:** Many of the technical complementaries are offered only in alternate years. Students should, therefore, plan their complementaries as far ahead as possible. With the approval of the instructor and Academic Adviser, students may take graduate (600-level) CHEE courses as technical complementaries.

## 6.12.4 Civil Engineering and Applied Mechanics

### 6.12.4.1 Location

Macdonald Engineering Building, Room 492  
 817 Sherbrooke Street West  
 Montreal QC H3A 0C3  
 Telephone: 514-398-6860  
 Fax: 514-398-7361  
 Email: [ugradinfo.civil@mcgill.ca](mailto:ugradinfo.civil@mcgill.ca)  
 Website: [www.mcgill.ca/civil](http://www.mcgill.ca/civil)

### 6.12.4.2 About the Department of Civil Engineering and Applied Mechanics

Civil engineers have traditionally applied scientific and engineering knowledge to the task of providing the built environment, from its conception and planning to its design, construction, maintenance, rehabilitation, and sustainability. Examples include buildings; bridges; roads; railways; dams; facilities for water supply and treatment; waste disposal; and transportation system.

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 and Applied Mechanics. 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

**Associate Professors**

Luc E. Chouinard; B.Ing., M.Ing.(Montr.), B.C.L.(McG.), Sc.D.(MIT), Eng.  
 Dominic Frigon; B.Sc., M.Sc.(McG.), Ph.D.(Ill.-Urbana-Champaign), L.L.E.  
 Susan J. Gaskin; B.Sc.(Eng.)(Qu.), Ph.D.(Cant.), Eng.  
 Jinxia Liu; B.E./M.E.(Tianjin), M.E.(Rensselaer Poly.), Ph.D.(Purd.)  
 Luis Miranda-Moreno; B.Sc., M.Eng.(UAEM, Mexico), Ph.D.(Wat.)

**Assistant Professor**

Mary Kang; B.A.Sc., M.A.Sc.(Wat.), Ph.D.(Princ.)  
 Lijun Sun; B.Eng. (Tsinghua), Ph.D. (NUS)

**6.12.4.5 Bachelor of Engineering (B.Eng.) - Civil Engineering (139 credits)**

Program credit weight: 139 credits

Program credit weight for Quebec CEGEP students: 110 credits

The Civil Engineering program is comprehensive in providing the fundamentals in mechanics and engineering associated with the diverse fields of the profession, in offering choices of specialization, and in fully reflecting the advances in science, mathematics, engineering, and computing that have transformed all fields of engineering in recent years. The resulting knowledge and training enables graduates to not only enter the profession thoroughly well prepared, but also to adapt to further change.

The required courses ensure a sound scientific and analytical basis for professional studies through courses in solid mechanics, fluid mechanics, soil mechanics, environmental engineering, water resources management, structural analysis, systems analysis, and mathematics. Fundamental concepts are applied to various fields of practice in both required and complementary courses.

By a suitable choice of complementary courses, students can attain advanced levels of technical knowledge in the specialized areas mentioned above. Alternatively, students may choose to develop their interests in a more general way by combining complementary courses within the Department with several from other departments or faculties.

**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 110-credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-students> and select your term of admission.

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

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.

### Required Civil Engineering Courses

61 credits

CIVE 202	(4)	Construction Materials
CIVE 205	(3)	Statics
CIVE 206	(3)	Dynamics
CIVE 207	(4)	Solid Mechanics
CIVE 208	(3)	Civil Engineering System Analysis
CIVE 210	(2)	Surveying
CIVE 225	(4)	Environmental Engineering
CIVE 290	(3)	Thermodynamics and Heat Transfer
CIVE 302	(3)	Probabilistic Systems
CIVE 311	(4)	Geotechnical Mechanics
CIVE 317	(3)	Structural Engineering 1
CIVE 318	(3)	Structural Engineering 2
CIVE 319	(3)	Transportation Engineering
CIVE 320	(4)	Numerical Methods
CIVE 323	(3)	Hydrology and Water Resources
CIVE 324	(3)	Sustainable Project Management
CIVE 327	(4)	Fluid Mechanics and Hydraulics
CIVE 418	(4)	Design Project
CIVE 432	(1)	Technical Paper

### Complementary Courses

21 credits

#### List A - Design Technical Complementaries

6-15 credits from the following:

CIVE 416	(3)	Geotechnical Engineering
CIVE 421	(3)	Municipal Systems
CIVE 428	(3)	Water Resources and Hydraulic Engineering
CIVE 430	(3)	Water Treatment and Pollution Control
CIVE 440	(3)	Traffic Engineering and Simulation
CIVE 462	(3)	Design of Steel Structures

CIVE 463 (3) Design of Concrete Structures

**List B - General Technical Complementaries**

0-9 credits from the following, or from other suitable undergraduate courses:

- CHEE 521\* (3) Nanomaterials and Environmental Engineering
- CIVE 446 (3) Construction Engineering
- CIVE 451 (3) Geoenvironmental Engineering
- CIVE 460 (3) Matrix Structural Analysis
- CIVE 470 (3) Undergraduate Research
- CIVE 512 (3) Advanced Civil Engineering Materials
- CIVE 514 (3) Structural Mechanics
- CIVE 520 (3) Groundwater Hydrology
- CIVE 521\* (3) Nanomaterials and Environmental Engineering
- CIVE 527 (3) Renovation and Preservation of Infrastructure
- CIVE 540 (3) Urban Transportation Planning
- CIVE 542 (3) Transportation Network Analysis
- CIVE 546 (3) Selected Topics in Engineering I
- CIVE 550 (3) Water Resources Management
- CIVE 551 (3) Environmental Transportation Issues
- CIVE 555 (3) Environmental Data Analysis
- CIVE 557 (3) Microbiology for Environmental Engineering
- CIVE 558 (3) Biomolecular Technology in Environmental Engineering
- CIVE 560 (3) Transportation Safety
- CIVE 561 (3) Urban Activity, Air Quality and Health
- CIVE 572 (3) Computational Hydrology
- CIVE 573 (3) Hydraulic Structures
- CIVE 574 (3) Fluid Mechanics of Open Channel Flow
- CIVE 577 (3) River Engineering
- CIVE 584 (3) Mechanics of Groundwater Flow
- URBP 551 (3) Urban Design and Planning

\* 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

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 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

\*\* Note: INTG 201 and INTG 202 are not open to students who have tak



## Emeritus Professors

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.

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., P.Eng. (*James McGill Professor and Macdonald Professor*)

Benoit Champagne; B.Eng., M.Eng.(Montr.), Ph.D.(Tor.) P.Eng.

Lawrence Chen; B.Eng.(McG.), M.A.Sc., Ph.D.(Tor.) ing.

James Clark; B.Sc., Ph.D.(Br. Col.) (*Currently on sabbatical 2019-2020*) P.Eng.

Mark Coates; B.Eng.(Adel.), Ph.D.(Camb.) P.Eng.

Jeremy R. Cooperstock; A.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.) ing.Jr.

Frank Ferrie; B.Eng., Ph.D.(McG.) P.Eng.

Warren Gross; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Tor.) (*Louis-Ho Faculty Scholar in Technological Innovation*) P.Eng.

Geza Joos; B.Sc.(C' dia), M.Eng., Ph.D.(McG.) (*CRC Chair*) P.Eng.

Andrew G. Kirk; B.Sc.(Brist.), Ph.D.(Lond.), P.Eng. (*James McGill Professor*) (*Currently on sabbatical 2019-2020*)

Fabrice Labeau; M.S., Ph.D.(Louvain) (*Interim Deputy Provost, Student Life and Learning (SLL)*) P.Eng.

Harry Leib; B.Sc.(Technion), Ph.D.(Tor.)

Tho Le-Ngoc; M.Eng.(McG.), Ph.D.(Ott.), F.I.E.E.E. P. Eng.

David A. Lowther; B.Sc.(Lond.), Ph.D.(C.N.A.A.), F

### Associate Professors

Derek Nowrouzezahrai; B.Sc.(Wat.), M.Sc., Ph.D.(Tor.)

Milica Popovich; B.Sc.(Colo.), M.Sc., Ph.D.(N'western), LL

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.)

Amin Emad; B.Sc. (Sharif), M.Sc. (Alta.), Ph.D. (Ill.)

Shane McIntosh; B.A.(Comp.)(Guelph), M.Sc., Ph.D.(Qu.)

Xiaozhe Wang; B.Sc.(Zhejiang), M.Sc., Ph.D.(Cornell)

Songrui Zhao; B.Sc.(Chu Ke-Chen), Ph.D.(Zhejiang), Ph.D.(McG)

Marcello Colombino; M.Eng.(Imperial Coll.), Ph.D.(ETH Zurich),

AJung Moon; B.A.Sc.(Wat.), M.A.Sc., Ph.D.(Br.Col.)

Boris Vaisband; B.S.(Technion), M.S., Ph.D.(Roch.)

### Associate Members

Matthew Adam Dobbs; B.Sc. (McG.), Ph.D.(Vic., BC)

Gregory Dudek; B.Sc.(Qu.), M.Sc., Ph.D.(Tor.)

Alan C. Evans; M.Sc.(Sur.), Ph.D.(Leeds)

William R. Funnell; M.Eng., Ph.D.(McG.)

David Juncker; Ph.D.(Neuchâtel)

ialifF3 8a0k.), Ph.D.(MIT)

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

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

57 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
ECSE 307	(4)	Linear Systems and Control
ECSE 308	(4)	Introduction to Communication Systems and Networks
ECSE 324	(4)	Computer Organization
ECSE 331	(4)	Electronics
ECSE 354	(4)	Electromagnetic Wave Propagation
ECSE 362	(4)	Fundamentals of Power Engineering
ECSE 443	(3)	Introduction to Numerical Methods in Electrical Engineering
ECSE 458D1	(3)	Capstone Design Project
ECSE 458D2	(3)	Capstone Design Project

Note: ECSE 478N1 and ECSE 478N2 can be taken instead of ECSE 478D1 and ECSE 478D2.

#### Complementary Courses (26-30 credits)

### Technical Complementaries

20-24 credits (6 courses) must be taken, chosen as follows:

8 credits (2 courses) from List A

12-16 credits (4 courses) from List A or List B

#### List A: Technical Complementaries with Laboratory Experience

8-24 credits

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

#### List B: Technical Complementaries

0-12 credits

ECSE 310	(3)	Thermodynamics of Computing
ECSE 325	(3)	Digital Systems
ECSE 405	(3)	Antennas
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 413	(3)	Communications Systems 2
ECSE 415	(3)	Intro to Computer Vision
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 423	(3)	Fundamentals of Photonics
ECSE 424	(3)	Human-Computer Interaction
ECSE 425	(3)	Computer Architecture
ECSE 427	(3)	Operating Systems
ECSE 430	(3)	Photonic Devices and Systems
ECSE 431	(3)	Introduction to VLSI CAD

ECSE 468*	(3)	Electricité industrielle (Industrial Power Systems)
ECSE 469*	(3)	Protection des réseaux électriques
ECSE 472	(3)	Fundamentals of Circuit Simulation and Modelling
PHYS 434	(3)	Optics
PHYS 446	(3)	Majors Quantum Physics

\* Courses taught in French.

### 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 [www.mcgill.ca/importantdates](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
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BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought

The number of students selected to be between five and ten, will be subject to a specific agreement between the University and the Institute. Selection criteria for admission to the Institute will be based on the CGPA and on the curriculum vitae. The selection process for the scholarship may involve an interview with the committee presided by Hydro-Québec and the industrial partners. There is a possibility of an internship with Hydro-Québec.

#### CURRICULUM REQUIREMENTS FOR SELECTED STUDENTS

Generally, unless the University has authorized specific substitutions, students must complete the degree requirements set out in this eCalendar with the following specifications:

#### **Tec**

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see <http://www.mcgill.ca/engineering/current-students/undergraduate/new-students> and select your term of admission.

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

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

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
ECSE 307	(4)	Linear Systems and Control
ECSE 308	(4)	Introduction to Communication Systems and Networks
ECSE 324	(4)	Computer Organization
ECSE 331	(4)	Electronics
ECSE 354	(4)	Electromagnetic Wave Propagation
ECSE 362	(4)	Fundamentals of Power Engineering
ECSE 396	(1)	Honours Research Laboratory Rotation 1
ECSE 397	(1)	Honours Research Laboratory Rotation 2



ECSE 478D1	(3)	Electrical Engineering Honours Thesis
ECSE 478D2	(3)	Electrical Engineering Honours Thesis
ECSE 496	(1)	Honours Research Laboratory Rotation 3
ECSE 497	(1)	Honours Research Laboratory Rotation 4
ECSE 543	(3)	Numerical Methods in Electrical Engineering

Note: ECSE 478N1 and ECSE 478N2 can be taken instead of ECSE 478D1 and ECSE 478D2.

**Complementary Courses (29-33 credits)**

**Technical Complementaries**

ECSE 460*	(3)	Appareillage électrique (Electrical Power Equipment)
ECSE 464	(3)	Power Systems Analysis
ECSE 467*	(3)	Comportement des réseaux électriques
ECSE 468*	(3)	Electricité industrielle (Industrial Power Systems)

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

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to meet the growing demands by industry for engineers with a strong background in modern computer technology, it also provides the underlying depth for graduate studies in all fields of Computer Engineering.

In addition to technical complementary courses, students in the program take general complementary courses in social sciences, management studies, and humanities. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

**Required Year 0 (Freshman) Courses**

25 credits

Generally

ECSE 310	(3)	Thermodynamics of Computing
ECSE 321	(3)	Introduction to Software Engineering
ECSE 324	(4)	Computer Organization
ECSE 325	(3)	Digital Systems
ECSE 331	(4)	Electronics
ECSE 353	(3)	Electromagnetic Fields and Waves
ECSE 425	(3)	Computer Architecture
ECSE 427	(3)	Operating Systems
ECSE 444	(4)	Microprocessors
ECSE 458D1	(3)	Capstone Design Project
ECSE 458D2	(3)	Capstone Design Project

Note: ECSE 478N1 and ECSE 478N2 can be taken instead of ECSE 478D1 and ECSE 478D2.

### Complementary Courses

18-24 credits

Technical Complementaries

12-15 credits (4 courses) must be taken, chosen as follows:

9-11 credits (3 courses) from List A

3-4 credits (1 course) from List A or List B

#### List A

9-14 credits from the following:

COMP 424	(3)	Artificial Intelligence
ECSE 335	(4)	Microelectronics
ECSE 412	(3)	Discrete Time Signal Processing
		TT

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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 472	(3)	Fundamentals of Circuit Simulation and Modelling
ECSE 532	(4)	Computer Graphics

**Natural Science Complementary Courses (for CEGEP students only)**

0-3 credits

Students from CEGEP are required to complete one 3-credit course at the 200 level or higher, chosen from the following science departments, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering:

Atmospheric and Oceanic Sciences (ATOC)

Biology (BIOL)

Chemistry (CHEM)

Earth and Planetary Sciences (EPSC)

Earth System Science (ESYS)

Physics (PHYS)

**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 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
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.

### **Elective Course**

One 3-credit course at the 200-level or higher from any department at McGill, approved

**Required**



ECSE 321

(3)

Introduction to Software Engineering  
Computer Organization



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.

## 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](mailto:ugrad.mecheng@mcgill.ca)  
 Website: [www.mcgill.ca/mecheng](http://www.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. 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.

Concentrations in **Aeronautical Engineering** and **Design** are available for students in either the re

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**

Meyer Nahon



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.

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**

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.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, AdvEd1109edit

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
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 529	(3)	Discrete Manufacturing 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	()	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 folH 565v(3)TH2123



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.

### Elective Courses

0-6 credits

Students from Quebec CEGEPs must take 6 credits of courses at the 200 level or higher from the following faculties/schools:

Desautels Faculty of Management

Faculty of Agricultural and Environmental Sciences

Faculty of Arts

Faculty of Engineering

Faculty of Religious Studies

Faculty of Science

Schulich School of Music

### Typical Program of Study

Students entering the program from Quebec CEGEPs follow a different curriculum from those entering from outside the province. Students will be advised by the Department as to which courses they should select from the course lists above.

For a detailed curriculum, please 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: 142-148 credits

Program credit weight for Quebec CEGEP students: 119 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**

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.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science

MECH 262

(3)

Statistics and Measurement Laboratory

(3)

Design Graphics for Mechanical Engineering

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 529	(3)	Discrete Manufacturing Systems
MECH 530	(3)	Mechanics of Composite Materials

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## 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 you are eligible for these courses, please contact the Registrar's Office at 304.268.4444.

Faculty of Engineering  
Faculty of Religious Studies  
Faculty of Science  
Schulich School of Music

**Typical Pr**

### Complementary Courses (9 credits)

MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aerospace Structures
MECH 537	(3)	High-Speed Aerodynamics
MECH 538	(3)	Unsteady Aerodynamics
MECH 539	(3)	Computational Aerodynamics
MECH 559*	(3)	Engineering Systems Optimization
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 566	(3)	Fluid-Structure Interactions
MECH 567	(3)	Structural Dynamics of Turbomachines
MECH 579*	(3)	Multidisciplinary Design Optimization

\* Students cannot get credit for both MECH 559 and MECH 579.

### 6.12.6.8 Bachelor of Engineering (B.Eng.) - Mechanical Engineering - Design (15 credits)

Students in this concentration take five courses in the area of design, including the completion of an interdisciplinary project.

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 concentration.

Total concentration credit weight: 15-16 credits

#### Required Courses

6 credits

MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2

#### Complementary Courses

9-10 credits from the following:

ARCH 515	(3)	Sustainable Design
CHEE 453	(4)	Process Design
MECH 497	(3)	Value Engineering
MECH 526	(3)	Manufacturing and the Environment
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

### 6.12.6.9 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering - Design (15 credits)

Students in this concentration take five courses in the area of design, including the completion of an interdisciplinary project.

Students should complete a Course Authorization Form, av

**Required Courses**

6 credits

MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2

**Complementary Courses**

9-10 credits from the following:

ARCH 515	(3)	Sustainable Design
CHEE 453	(4)	Process Design
MECH 497	(3)	Value Engineering
MECH 526	(3)	Manufacturing and the Environment
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: [www.mcgill.ca/minmat](http://www.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](mailto:coordinator.minmat@mcgill.ca)  
 Website: [www.mcgill.ca/materials](http://www.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](mailto:admin.mining@mcgill.ca)  
 Website: [www.mcgill.ca/mining](http://www.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 Engineering degree in Materials Engineering or Mining Engineering. In addition to regular courses and laboratories, the curriculum includes seminars, colloquia, and student projects reinforced by field trips to industrial operations.

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## Associate Professors

Kirk Bevan; B.Eng.(Western), Ph.D.(Purd.), P.Eng.

Mathieu Brochu; B.Eng.(Laval), Ph.D.(McG.), Eng. (*Hate*

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.

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
MIME 212	(3)	Engineering Thermodynamics
MIME 250	(3)	Introduction to Extractive Metallurgy
MIME 261	(3)	Structure of Materials
MIME 311	(3)	Modelling and Automatic Control
MIME 317	(3)	Analytical and Characterization Techniques
MIME 341	(3)	Introduction to Mineral Processing
MIME 345	(3)	Applications of Polymers
MIME 350	(3)	Extractive Metallurgical Engineering
MIME 352	(3)	Hydrochemical Processing
MIME 356	(4)	Heat, Mass and Fluid Flow
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties
MIME 452	(4)	Process and Materials Design
MIME 455	(3)	Advanced Process Engineering
MIME 456	(3)	Steelmaking and Steel Processing
MIME 465	(3)	Metallic and Ceramic Powders Processing
MIME 467	(3)	Electronic Properties of Materials
MIME 470	(3)	Engineering Biomaterials
MIME 473	(3)	Introduction to Computational Materials Design

### Complementary Courses (21 credits)

#### Technical Complementaries

15 credits

9-15 credits from the following:

CHEE 515*	(3)	Material Surfaces: A Biomimetic Approach
CIVE 512	(3)	Advanced Civil Engineering Materials
MECH 530	(3)	Mechanics of Composite Materials
MIME 410	(3)	Research Project
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 515*	(3)	Material Surfaces: A Biomimetic Approach
MIME 526	(3)	Mineral Economics

MIME 542	(3)	Transmission Electron Microscopy
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MIME 551	(3)	Electrochemical Processing
MIME 556	(3)	Sustainable Materials Processing
MIME 558	(3)	Engineering Nanomaterials
		Aluminum Physical Me

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
		Law for

### **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.

For information on these

MIME 341	(3)	Introduction to Mineral Processing
MIME 345	(3)	Applications of Polymers
MIME 350	(3)	Extractive Metallurgical Engineering
MIME 352	(3)	Hydrochemical Processing
MIME 356	(4)	Heat, Mass and Fluid Flow
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties
MIME 380	(2)	Industrial Training 2
MIME 452	(4)	Process and Materials Design
MIME 455	(3)	Advanced Process Engineering
MIME 456	(3)	Steelmaking and Steel Processing
MIME 465	(3)	Metallic and Ceramic Powders Processing
MIME 467	(3)	Electronic Properties of Materials
MIME 470	(3)	Engineering Biomaterials
MIME 473	(3)	Introduction to Computational Materials Design
MIME 480	(2)	Industrial Training 3

### **Complementary Courses**

15 credits

### **Technical Complementaries**

9 credits

6-9 credits from the following:

CHEE 515*	(3)	Material Surfaces: A Biomimetic Approach
CIVE 512	(3)	Advanced Civil Engineering Materials
MECH 530	(3)	Mechanics of Composite Materials
MIME 410	(3)	Research Project
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 515*	(3)	Material Surfaces: A Biomimetic Approach
MIME 526	(3)	Mineral Economics
MIME 542	(3)	Transmission Electron Microscopy
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MIME 551	(3)	Electrochemical Processing



MIME 568	(3)	Topics in Advanced Materials
MIME 569	(3)	Electron Beam Analysis of Materials Micro- and Nano-F



The Department offers a Major in Mining Engineering leading to an accredited B.Eng. degree in Mining Engineering. The 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. In addition to regular courses and laboratories, the curriculum of the Major in Mining Engineering programs include seminars, colloquia, and student projects reinforced by field trips to industrial operations.

### **B.Eng.; Major in Mining Engineering**

Program credit weight: 144-145 credits

Program credit weight for CEGEP students: 115-116 credits

Entry into the Major in Mining Engineering

Students in Mining can be admitted only into the B.Eng.; Co-op in Mining Engineering. There is no direct entry to the Major in Mining Engineering (which does not include the work terms required for the Co-op program).

Students may enter the Major in Mining Engineering if they wish at any point in time during their study.

To transfer into the Major program, students must obtain approval from the department adviser and submit a Request for Course Authorization form to the McGill Engineering Student Centre (Frank Dawson Adams, Room 22).

### **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 115- to 116-credit program.

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

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 (37 credits)**

CCOM 206	(3)	Communication in Engineering
CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
ECSE 461	(3)	Electric Machinery
EPSC 221	(3)	General Geology
EPSC 225	(1)	Properties of Minerals
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 (Introduction to the Engineering Profession) must be taken during the first year of study.

**Required Mining Engineering Courses (47 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 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 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 Ecole 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 Complementaries**

8-9 credits can be chosen from the following or from any other approved technical courses in Engineering, Management or Science.

Note: Not all course are given annually; see the "Courses" section of this publication to know if a course is offered.

CFIN 410	(3)	Investment and Portfolio Management
CIVE 416	(3)	Geotechnical Engineering



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.

In addition to re

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:

MIME 328*	(0)	
MPMC 321*	(3)	Mécanique des roches et contrôle des terrains
MPMC 326*	(3)	Recherche opérationnelle I
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 Complementaries**





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
	(3)	Integrated Management Essentials 1

## 6.12.8 Urban Planning

### 6.12.8.1 Location

Macdonald-Harrington Building, Room 400  
815 Sherbrooke Street West  
Montreal QC H3A 0C2  
Telephone: 514-398-4075  
Fax: 514-398-8376  
Email: [admissions.planning@mcgill.ca](mailto:admissions.planning@mcgill.ca)  
Website: [www.mcgill.ca/urbanplanning](http://www.mcgill.ca/urbanplanning)

### 6.12.8.2 About the School of Urban Planning

Urban planning can be described as the collective management of urban development. It is concerned with the welfare of communities, control of the use of land, design of the built environment, including transportation and communication networks, and protection and enhancement of the natural environment. It is at once a technical and a political process that brings together actors from the public, private, and community spheres. Planners participate in that process in a variety of ways, as designers and analysts, advocates and mediators, facilitating the search for equitable and efficient solutions to problems of urban change and development.

Modern urban planning developed into a profession largely as a response to the appalling sanitary, social, and economic conditions of rapidly developing industrial cities. Initially, the disciplines of architecture, landscape architecture, civil engineering, and public health provided the nucleus of concerned professionals; beautification schemes and infrastructure works marked the early stages of public intervention in the 19th century. Architects, engineers, and public health specialists were joined by economists, sociologists, lawyers, and geographers as the complexities of the city's problems came to be more fully understood and public pressure mounted for their solution. Contemporary urban and regional planning techniques for survey, analysis, design, and implementation developed from an interdisciplinary synthesis of these various fields. This multidisciplinaryity is still a hallmark of planning practice and of planning education.

McGill was the first university in Canada to offer a planning degree, starting in 1947. The School of Urban Planning itself was established as an independent unit in 1972. Today, it brings together students from various fields (such as those mentioned above) and different parts of the world in a professional **master's** program. Key features of the work done at the school are the use of real-world projects for learning, a focus on policy-relevant research, and strong engagement with the community, both in Canada and abroad.

The School has a long track record of research, capacity-building and consulting in developing regions as well as in Montreal and other Canadian cities. Faculty and students collaborate actively with members of other McGill departments, notably Architecture, Geography, Civil Engineering, and Law, and with colleagues at other institutions in Canada and abroad. Alumni of the School work as planners and designers at various levels of government, in non-profit organizations, and with private consulting firms. Their expertise ranges from urban design to transportation planning, from housing policy to computer modelling. They devote their efforts in increasing numbers to environmental planning and sustainable development.

## Undergraduate Courses in Urban Planning

### Adjunct Professors

Nilson Espino; B.Arch.(Catolica Santa Maria La Antigua), M.Sc.(Ariz.), Ph.D.(Rice)

Murtaza Haider; B.Sc.(NWFP UET-Pesh.), M.A.Sc., Ph.D.(Tor.)

Marc-André Lechasseur; LL.B.(Sher.), LL.M.(Montr.)

Mario Polèse; B.A.(CUNY), M.A., Ph.D.(Penn.)

Ray Tomalty; B.A., M.P.A.(Qu.), Ph.D.(Wat.)

### Associate Member

Cameron Charlebois; B.Sc.(Arch.), B.Arch., M.B.A.(McG.)

### Instructors

Malaka Ackaoui, Julian Agyeman, Suzanne Doucet, Mark Elsworth, Gorka Espiau, Julie Lakis, Amy Oliver, Geneviève Reid, Gregory Richardson, Arturo Valladares, Martin Wexler

## 6.12.9 Other Engineering Related Programs

### 6.12.9.1 Bioresource Engineering

The Faculty of Engineering cooperates with the Faculty of Agricultural and Environmental Sciences in providing courses of instruction for a curriculum in bioresource engineering to meet requirements for a professional degree awarded in the Faculty of Agricultural and Environmental Sciences. For details, refer to the B.Eng.(Bioresource) program requirements in [Faculty of Agricultural & Environmental Sciences > Undergraduate > Browse Academic Programs > section 2.6.3: Bachelor of Engineering \(Bioresource\) – B.Eng.\(Bioresource\)](#).

Some of the courses offered by the Department of Bioresource Engineering (subject code BREE) may be of interest to students in the Faculty of Engineering.

The Department of Bioresource Engineering is located in the Faculty of Agricultural and Environmental Sciences on the Macdonald campus:

Department of Bioresource Engineering  
Macdonald-Stewart Building, Room MS1-028  
21,111 Lakeshore Road  
Sainte-Anne-de-Bellevue QC H9X 3V9  
Telephone: 514-398-7773  
Fax: 514-398-7990  
Website: [www.mcgill.ca/bioeng](http://www.mcgill.ca/bioeng)

### 6.12.9.2 Biomedical Engineering

The Faculty of Engineering cooperates with the Faculty of Medicine in graduate degrees in biological and biomedical engineering. Some of the **(500-level)** courses offered by the Department of Biomedical Engineering (subject code BMDE) may be of interest to Engineering students, and may be approved as complementary courses. The Faculty of Engineering also offers a Minor in Biomedical Engineering; for more information, see [section 6.12.10.3: Bachelor of Engineering \(B.Eng.\) - Minor Biomedical Engineering \(21 credits\)](#).

Lyman Duff Medical Sciences Building  
3775 University Street, Room 316  
Montreal QC H3A 2B4  
Telephone: 514-398-6736  
Website: [www.mcgill.ca/bme](http://www.mcgill.ca/bme)

## 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.) degree. Minors normally consist of 18–24 credits, allowing 6–12 credits of overlap with the degree program (see individual minor program requirements for specific information regarding course overlap). The real credit cost to the student is typically 9–18 credits, representing one term beyond the B.Eng. or B.Sc.(Arch.) degree program. All courses in a minor must be passed with a grade of C or better.

Engineering students choose from a considerable variety of complementary courses under the categories of technical and complementary studies. Students should refer to their department for information concerning selection of complementary courses, and should see their departmental adviser. Departments also publish information regarding the choice of courses in this publication and in separate documents.



**Note:** Students are also permitted to register for minor concentrations offered by departments in the Faculty of Arts. To register in one of these minor concentrations, students must submit a Request for Course Authorization form to the *McGill Engineering Student Centre* (Student Affairs Office; Frank Dawson Adams Building, Room 22) to obtain approval from the Faculty of Engineering. The Faculty of Engineering allows up to 9 credits of overlap with the degree program for Engineering students taking Arts minor concentrations.

#### Minor Programs:

- *section 6.12.10.1: Bachelor of Engineering (B.Eng.) - Minor Aerospace Engineering (24 credits)*
- *section 6.12.10.2: Bachelor of Engineering (B.Eng.) - Minor Arts (24 credits)*
- *section 6.12.10.3: Bachelor of Engineering (B.Eng.) - Minor Biomedical Engineering (21 credits)*
- *section 6.12.10.4: Bachelor of Engineering (B.Eng.) - Minor Biotechnology (for Engineering Students) (24 credits)*
- *section 6.12.10.5: Bachelor of Engineering (B.Eng.) - Minor Chemistry (25 credits)*
- *section 6.12.10.6: Computer Science Courses and Minor Program*
- *section 6.12.10.7: Bachelor of Engineering (B.Eng.) - Minor Construction Engineering and Management (24 credits)*
- *section 6.12.10.8: Bachelor of Engineering (B.Eng.) - Minor Economics (18 credits)*
- *section 6.12.10.9: Minor in Environment*
- *section 6.12.10.10: Bachelor of Engineering (B.Eng.) - Minor Environmental Engineering (21 credits)*
- *section 6.12.10.11: Minor Programs in Finance, Management, Marketing, and Operations Management*
- *section 6.12.10.12: Bachelor of Engineering (B.Eng.) - Minor Materials Engineering (24 credits)*
- *section 6.12.10.13: Bachelor of Engineering (B.Eng.) - Minor Mathematics (18 credits)*
- *section 6.12.10.14: Bachelor of Engineering (B.Eng.) - Minor Mining Engineering (23 credits)*
- *section 6.12.10.15: Minor in Musical Science and Technology*
- *section 6.12.10.16: Bachelor of Engineering (B.Eng.) - Minor Nanotechnology (21 credits)*
- *section 6.12.10.17: Bachelor of Engineering (B.Eng.) - Minor Physics (18 credits)*
- *section 6.12.10.18: Bachelor of Engineering (B.Eng.) - Minor Software Engineering (18 credits)*
- *section 6.12.10.19: Bachelor of Engineering (B.Eng.) - Minor Technological Entrepreneurship (18 credits)*

#### 6.12.10.1 Bachelor of Engineering (B.Eng.) - Minor Aerospace Engineering (24 credits)

\*\* NEW PROGRAM \*\*

The Minor will prepare an engineering student for a career in aerospace engineering. The required courses in the Minor cover fundamental aircraft and spacecraft design and the certification process. The student can then further specialize in aerodynamics and propulsion, structural analysis, materials and processes, spacecraft engineering and systems and avionics by choosing the appropriate technical stream. A capstone aerospace design project is offered in the last year of the program in collaboration with the local aerospace companies.

Minor Adviser: Prof. Pascal Hubert, Macdonald Engineering Building, Room 361.

The Minor in Aerospace Engineering is offered by the McGill Institute of Aerospace Engineering and is open to all students in Engineering ONLY.

A maximum of 15 credits of coursework in the student's major may double-count with the Minor.

#### Required Courses (6 credits)

AERO 401	(3)	Introduction to Aerospace Engineering
AERO 410	(3)	Aerospace Design and Certification Process

#### Complementary Courses (18 credits)

18 credits from one of the following streams:

##### Aerodynamics and Propulsion Stream

MECH 463D1*	(3)	Design 3: Mechanical Engineering Project
MECH 463D2*	(3)	Design 3: Mechanical Engineering Project

\* An aerospace engineering project will be defined for students enrolled in the Minor

AND

12 credits from the following:

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
	(3)3	Fluid-Structure Interactions

MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
PHYS 214	(3)	Introductory Astrophysics

**Material and Processes Stream**

AERO 460D1	(3)	Aerospace Project
AERO 460D2	(3)	Aerospace Project

AND

12 credits from the following:

CHEE 515*	(3)	Material Surfaces: A 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)	Material Surfaces: A Biomimetic Approach
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 456*	(3)	ECSE Design Project 1
ECSE 457*	(3)	ECSE Design Project 2

\* An aerospace engineering project will be defined for students enrolled in the Minor.

AND

12 credits from the following:

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 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 this Minor in consultation with one of the Advisers indicated above.

All courses in the Minor must be passed with a grade of C or better.

#### **Requirements**

24 credits as follows:

- a) At least two areas of concentration in the Faculty of Arts must be chosen, with a minimum of 6 credits in any one area.
- b) At least 12 credits must be at the 300 level or higher.

In general, B.Eng. students may use courses from the Complementary Studies lists (Group A and Group B) in their program that are offered by the Faculty of Arts to satisfy some of these requirements. No more than 9 credits of these courses can be credited toward the Arts Minor.

### **6.12.10.3 Bachelor of Engineering (B.Eng.) - Minor Biomedical Engineering (21 credits)**

**Revision, May 2019. Start of revision.**

Biomedical engineering can be defined as the application of engineering principles to medicine and the life sciences. Students in the Biomedical Engineering Minor take courses in life sciences (anatomy, biology, chemistry, and physiology) and choose courses from area(s) within the field of biomedicine (artificial cells and organs; bioinformatics, genomics, and proteomics; biomaterials, biosensors, and nanotechnology; biomechanics and prosthetics; medical physics and imaging; neural systems and biosignal processing).

Note: Open to students in the Faculty of Engineering and the Department of Bioresource Engineering.

The Biomedical Engineering Minor allows access to courses in basic life sciences and it intended to expose students to the interdisciplinary tools used in biomedicine.

To complete this Minor, students must obtain a grade of C or better in all approved courses and satisfy the requirements of both the major program and the Minor. By careful selection of courses, the Minor can be satisfied with 9 additional credits in the student's major program or a maximum of 12 credits overlap with the major program.

Students considering this Minor should contact the Minor Advisers listed above.

Minor Advisers: Prof. R. Leask (Wong Building, Room 4120), Prof. R. Mongrain (Macdonald Engineering Building, Room 369) or Prof. G. Mitsis (McConnell Engineering Building, Room 361).

#### **Complementary Courses**

(21-25 credits)

#### **Introductory Life Sciences**

Minimum of 3 credits from the courses below:

ANA	(3)	Molecular Mechanisms of Cell Function
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BIEN 462	(3)	Engineering Principles in Physiological Systems
BMDE 501	(3)	Selected Topics in Biomedical Engineering
BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
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.

**Revision, May 2019. End of revision.**

**6.12.10.4 Bachelor of Engineering (B.Eng.) - Minor Biotechnology (for Engineering Students) (24 credits)**

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson)

ANAT 541	(3)	Cell and Molecular Biology of Aging
EXMD 504	(3)	Biology of Cancer
PATH 300	(3)	Human Disease

### **Chemistry**

CHEM 482	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 552	(3)	Physical Organic Chemistry

### **General**

FACC 300	(3)	Engineering Economy
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### **Immunology**

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 503	(3)	Immunochemistry
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 414	(3)	Advanced Immunology

### **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**

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

### **6.12.10.5 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

Inorg

### **6.12.10.62 Bachelor of Engineering (B.Eng.) - Minor Computer Science**

24-25 credits

This program gives students in Engineering an introduction to core computer science concepts. The Minor is open to B.Eng. and B.Sc.(Arch.) students in Engineering who have already taken ECSE 202, COMP 202, or COMP 208. These courses are all considered equivalent as prerequisites for COMP 250. This program is not open to students in the B.S.E. program. All courses in the Minor must be passed with a grade of C or better. The Minor program requires the completion of 24 credits, of which no more than 6 credits may overlap with the primary program.

Students who are interested in this Minor should consult with the Undergraduate Program Coordinator in the School of Computer Science (ENGMC 320) for administrative matters, and should consult with both the Minor Adviser in Computer Science and with their department adviser for approval of their course selection. Forms must be submitted and approved before the end of the drop/add period of the student's final term.

#### **Required Courses**

6 credits

COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

#### **Complementary Courses**

18-19 credits

3 credits from the following:

Programming Languages and P



Note: This Minor is particularly designed for Civil Engineering students, but is open to all B.Eng. and B.Sc.(Arch.) students.  
All courses in the Minor must be passed with a grade of C or better.

**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
FACC 220	(3)	Law for Architects and Engineers

### 6.12.10.8 Bachelor of Engineering (B.Eng.) - Minor Economics (18 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

Program credit weight: 18 credits

This Minor consists of 18 credits of required and complementary courses given in the Economics Department. In addition, it is presumed that all Engineering students will have a sufficient background in statistics. Engineering Economy, FACC 300, does not form part of this Minor. Engineering students who want to complete a minor in economics are required to complete the following program rather than one of the minor concentrations offered by the Department of Economics in the Faculty of Arts section of this eCalendar, unless they have obtained permission from the Faculty of Engineering.

All courses in the Minor must be passed with a grade of C or better.

#### Required Courses

9 credits

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 both 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/ECON 230D2.

#### Complementary Courses

9 credits from:

ECON 225	(3)	Economics of the Environment
ECON 303	(3)	Canadian Economic Policy
ECON 304	(3)	Financial Instruments & 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 420	(3)	Topics in Economic Theory
ECON 426	(3)	Labour Economics
ECON 434	(3)	Current Economic Problems
ECON 440	(3)	Health Economics
ECON 468	(3)	Econometrics 1 - Honours
ECON 469	(3)	Econometrics 2 - Honours
ECON 525	(3)	Project Analysis
ECON 546	(3)	Game Theory

Note: Mining Engineering students are permitted to include MIME 526 Mineral Economics among the Complementary Courses.

### 6.12.10.9 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 McGill School of Environment (MSE).

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 wishing to complete the Minor should prepare a program and have it approved by both their regular Engineering departmental adviser and the MSE Adviser. For program details, see [McGill School of Environment](#) > Undergraduate > Browse Academic Programs > [section 7.7.1: Minor in Environment](#).



**Note:** Engineering students interested in this Minor must submit a completed Course Authorization Form to the [McGill Engineering Student Centre](#) (Student Affairs Office; Frank Dawson Adams Building, Room 22).

**Minor Adviser:** Students interested in this Minor should contact:

Kathy Roulet  
 McGill School of Environment Program Adviser  
 Telephone: 514-398-4306  
 Email: [kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)

### 6.12.10.10 Bachelor of Engineering (B.Eng.) - Minor Environmental Engineering (21 credits)

Minor Adviser: Prof. S. Ghoshal, Macdonald Engineering Building, Room 569C

\* A minimum of 6 credits must be from outside the student's department. A maximum of 6 credits of research project courses may be counted toward this category, provided the project has sufficient environmental engineering content (project requires approval of project supervisor and coordinator of the Minor).

ARCH 377	(3)	Energy, Environment and Buildings
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 526	(3)	Manufacturing and the Environment
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
RELG 270	(3)	Religious Ethics and the Environment
SOIL 210++	(3)	Principles of Soil Science
SOIL 331	(3)	Environmental Soil Physics
WILD 375	(3)	Issues: Environmental Sciences
WILD 415	(2)	Conservation Law
WOOD 420	(3)	Environmental Issues: Forestry

+ Not open to students who have passed CHEE 370.

++ Not part of the Minor for Agricultural Engineering students.

Courses offered at the Downtown campus:

ANTH 206	(3)	Environment and Culture
BIOL 205	(3)	Biology of Organisms
BIOL 432	(3)	Limnology
CMPL 580	(3)	Environment and the Law
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
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)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 404	(3)	Environmental Management 2
MIMM 211	(3)	Introductory Microbiology

### 6.12.10.11 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 > section 9.8.7: Minors for Non-Management Students](#):

- [section 9.8.7.3: Bachelor of Commerce \(B.Com.\) - Minor Finance \(For Non-Management Students\) \(18 credits\)](#)
- [section 9.8.7.4: Bachelor of Commerce \(B.Com.\) - Minor Management \(For Non-Management Students\) \(18 credits\)](#)
- [section 9.8.7.5: Bachelor of Commerce \(B.Com.\) - Minor Marketing \(For Non-Management Students\) \(18 credits\)](#)
- [section 9.8.7.6: Bachelor of Commerce \(B.Com.\) - Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#)

Further information can also be found at

[www.mcgill.ca/engineering/students/current-students/undergraduate/advising-programs/academic-program-curriculum/minor-programs](http://www.mcgill.ca/engineering/students/current-students/undergraduate/advising-programs/academic-program-curriculum/minor-programs).

**6.12.10.12 Bachelor of Engineering (B.Eng.) - Minor Materials Engineering (24 credits)**

Minor Adviser: Prof. Richard Chromik (Minor Coordinator), Wong Building, Room 2620

Engineering students may obtain a Materials Engineering Minor by completing 24 credits chosen from the required and complementary courses listed below. By a careful selection of complementary courses, Engineering students may obtain this Minor with a minimum of 15 additional credits.

**Required Courses**

15 credits

CHEE 380*	(3)	Materials Science
CHEE 484	(3)	Materials Engineering
MIME 260*	(3)	Materials Science and Engineering
MIME 345	(3)	Applications of Polymers
MIME 465	(3)	Metallic and Ceramic Powders Processing
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

**6.12.10.13 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 Structures 2
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
MATT 271**	(0)	

\* 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.



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
MIME 588	(3)	Reliability Analysis of Mining Systems

**List B: Mechanical Engineering**

0-6 credits from the following:

MECH 497	(3)	Value Engineering
MECH 557	(3)	Mechatronic Design
MECH 572	(3)	Introduction to Robotics
MECH 573	(3)	Mechanics of Robotic Systems
MECH 577	(3)	Optimum Design

**List C: Civil Engineering**

0-6 credits from the following:

CIVE 416	(3)	Geotechnical Engineering
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 462	(3)	Design of Steel Structures
CIVE 463	(3)	Design of Concrete Structures
CIVE 527	(3)	Renovation and Preservation: Infrastructure

**List D: Chemical Engineering**

0-6 credits from the following:

CHEE 453	(4)	Process Design
CHEE 455	(3)	Process Control
CHEE 484	(3)	Materials Engineering

**List E: Electrical Engineering**

0-6 credits from the following:

ECSE 404	(3)	Control Systems
ECSE 426	(3)	Microprocessor Systems Signal Processing Hardw

### **6.12.10.15 Minor in Musical Science and Technology**

The Musical Science and Technology Minor focuses on interdisciplinary topics in science and technology applied to music. The goal of the program is to help prepare students for commercial jobs in the audio technology sector and/or for subsequent graduate research study. Enrolment in the MST Minor is limited to students with existing scientific backgrounds from all faculties at McGill University. Selection is based on prior experience in math, computer programming, and related sciences; expressed interest in the program; and Cumulative Grade Point Average (CGPA).

Engineering students may apply for admission to the **Minor in Musical Science and Technology**. Detailed information on this program can be found in [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 \(18 credits\)](#).

The online application form is available at [www.mcgill.ca/music/programs/minor/mst](http://www.mcgill.ca/music/programs/minor/mst) and should be submitted by May 15. Successful applicants will be notified via email by the end of June.

For further information about this Minor, please contact:

Department of Music Research  
Telephone: 514-398-4540  
Email: [research.music@mcgill.ca](mailto:research.music@mcgill.ca)  
Website: [www.mcgill.ca/music/programs/minor/mst](http://www.mcgill.ca/music/programs/minor/mst)

### **6.12.10.16 Bachelor of Engineering (B.Eng.) - Minor Nanotechnology (21 credits)**

Through courses already offered in the Faculties of Science, Engineering, and Medicine, 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

Students will be required to take up to 18-19 credits of courses from Group B, depending on how many courses from Group A were taken.

#### Bioengineering

BIEN 520	(3)	High Throughput Bioanalytical Devices
BIEN 550	(3)	Biomolecular Devices

#### Chemical Engineering

CHEE 380*	(3)	Materials Science
CHEE 515*	(3)	Material Surfaces: A Biomimetic Approach
CHEE 543	(3)	Plasma Engineering
CHEE 582	(3)	Polymer Science & Engineering
CHEE 585	(3)	Foundations of Soft Matter
CHEE 587	(3)	Chemical Processing: Electronics Industry

#### Chemistry

CHEM 334	(3)	Advanced Materials
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 582	(3)	Supramolecular Chemistry
CHEM 585	(3)	Colloid Chemistry
CHEM 587	(3)	Topics in Modern Analytical Chemistry

#### Electrical Engineering

ECSE 423	(3)	Fundamentals of Photonics
ECSE 430	(3)	Photonic Devices and Systems
ECSE 433	(4)	Physical Basis of Transistor Devices
ECSE 519**	(3)	Semiconductor Nanostructures and Nanophotonic Devices
ECSE 536**	(3)	RF Microelectronics
ECSE 571**	(3)	Optoelectronic Devices
ECSE 596**	(3)	Optical Waveguides
MIME 262*	(3)	Properties of Materials in Electrical Engineering

#### Mechanical Engineering

MECH 500***	(3)	Selected Topics in Mechanical Engineering
MECH 553	(3)	Design and Manufacture of Microdevices
MECH 556	(3)	Microfluidics and BioMEMS
MIME 260*	(3)	Materials Science and Engineering

#### Materials Engineering

MIME 261*	(3)	Structure of Materials
MIME 467	(3)	Electronic Properties of Materials

MIME 515*	(3)	Material Surfaces: A Biomimetic Approach
MIME 542	(3)	Transmission Electron Microscopy
MIME 558	(3)	Engineering Nanomaterials
MIME 569	(3)	Electron Beam Analysis of Materials
MIME 571	(3)	Surface Engineering

#### Pharmacology

PHAR 504	(3)	Drug Discovery and Development 2
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#### Physics

BIOL 319*	(3)	Introduction to Biophysics
PHYS 319*	(3)	Introduction to Biophysics
PHYS 446	(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.

#### **6.12.10.17 Bachelor of Engineering (B.Eng.) - Minor Physics (18 credits)**

Minor Adviser: Prof. G. Holder, Department of Physics, undergraduate.advisor@physics.mcgill.ca. For names and other contact information, see <http://www.physics.mcgill.ca/ugrads/advsched.html>.

Students in Honours Electrical Engineering may obtain this Minor as part of their B.Eng. degree by completing 18 credits of Physics courses, as listed below.

#### **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

### 6.12.10.18 Bachelor of Engineering (B.Eng.) - Minor Software Engineering (18 credits)

Minor Adviser: Undergraduate Program Office, Department of Electrical and Computer Engineering (Lorne Trotter Building, Room 2070)

The Software Engineering Minor will prepare engineering students for a career in software engineering. It will provide a foundation in basic computer science, computer programming, and software engineering practice.

The Minor program does not carry professional recognition.

Up to two courses (6 credits) may be double-counted towards a degree program.

#### 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

### **6.12.10.19 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 Year 2 or higher. Students in this Minor are not permitted to take the Desautels Minors in Management, Marketing, Finance or Operations Management (for non-Management students).

#### **Required Courses (12 credits)**

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: Technology Business Plan Design, Project 01226.331 Student

- to provide a program that will develop a broad-based environmental literacy in the undergraduate population;
- to develop opportunities for graduate students to pursue studies of the environment at an advanced level to create future leaders and researchers; and
- to generate new ideas, new insights, new technologies, and new approaches to understanding and redressing environmental problems through academic research and outreach that draws on the University's existing strength in research and spans disciplinary boundaries.

Through a range of research and educational initiatives, the MSE aims to aid society in making environmental choices, in the context of diverse environmental world views that will sustain healthy societies within a flourishing biosphere.

The MSE focuses on four themes:

- Health in a Changing Environment
- Ecosystems, Biodiversity, and Conservation
- Citizens, Communities, Institutions, and the Environment
- Rethinking Social-Ecological Relationships

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### **7.3 About the School (Undergraduate)**

For those wishing to pursue a career in environment, the McGill School of Environment (MSE) 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, the MSE approach is student-centered. We strive to achieve a fully integrated, transdisciplinary understanding of problems





## Associate Members

*Chemistry:* Christopher Barrett

*Civil Engineering and Applied Mechanics:* Susan Gaskin, Van-Thanh-Van Nguyen, Jim Nicell

*Earth and Planetary Sciences:* Nagissa Mahmoudi, Jeanne Paquette

*Economics:* Chris Green, Tom Naylor

*Electrical and Computer Engineering:* Geza Joos

*Epidemiology, Biostatistics, and Occupational Health:* Jonathan Che

If you have already completed a Bachelor or an equivalent degree, you may be admitted to the Diploma in Environment through the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, or the Faculty of Science. You register as a student within your faculty of admission and are governed by all rules and regulations of your faculty relative to the Diploma.

Please see the *Undergraduate Admissions Guide*, found at [www.mcgill.ca/applying](http://www.mcgill.ca/applying).

#### 7.4.2 Degree Requirements

To be eligible for a **B.A.** degree, you must fulfil all the faculty and program requirements as indicated in [Faculty of Arts > Undergraduate > section 3.6: Faculty Degree Requirements](#).

To be eligible for a **B.A. & Sc.** de(.mcgill.ca/applying)Tj0 G0 g/F1 8.1 Tf4a(640.921 Tm(gr)Tj1 0 0 4d program requirements as indicated in )Tj0 0 1 rg0 0 1 RG/F2 8.1 Tf1



## 7.7.1 Minor in Environment

The Minor in Environment is intended to complement an expertise obtained through a major, major concentration, Faculty program, or Interfaculty program offered by an academic unit **other than** the MSE\*. Students taking the Minor (or Minor Concentration) in Environment are exposed to different approaches, perspectives, and world views that will help them gain an understanding of the complexity and conflicts that underlie environmental problems.

Students, after consulting with their adviser in their major program or concentration and the MSE Program Adviser, can declare their intention to do a Minor (or Minor Concentration) in Environment.



**\* Note:** Students in Arts, Law, and Management should complete the **Minor Concentration Environment**. Students in Agricultural and Environmental Sciences, Engineering, and Science should complete the **Minor Environment**.

### 7.7.1.1 Bachelor of Arts (B.A.) - Minor Concentration Environment (18 credits)

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
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
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
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 Planning for Activ

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 & Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management

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MIMM 323	(3)	Microbial Physiology
NRSC 333	(3)	Pollution and Bioremediation
94.12 Tm.12 Tm(Tj)1 0 .ctio(3)		Environment and Infection



Some courses on the Suggested Course List may be subject to other regulations (e.g., the Restricted Courses List for Faculty of Science students). If in doubt, ask the Program Adviser.

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.

### Social Sciences and Policy

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 333	(3)	Resource Economics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 339	(3)	Ecological Anthropology
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
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
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
		Canadian V

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 & 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 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322**	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

GEOG 550	(3)	Historical Ecology Techniques
LSCI 230**	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211**	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PHYS 228	(3)	Energy and the Environment
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 302	(3)	Fish Ecology
WILD 421**	(3)	Wildlife Conservation

### 7.7.2 B.A. Faculty Program in Environment

The B.A. Faculty Program comprises of two course components: Core and Domain.

**Core:** The Core, 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:** In addition to the Core program, students choose a Domain. Domains provide a transdisciplinary study of a particular theme or component of the environment. The requirements and complementary course sets vary between Domains. You can choose to follow one of three Domains within the B.A. Faculty Program in Environment:

- Ecological Determinants of Health in Society
- Economics and the Earth's Environment
- Environment and Development

**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 B.A. Faculty Program in Environment, students must:

- register in a Domain online, using Minerva;
- satisfy the co- and/or prerequisites for the program (Numeracy [e.g., calculus] and a Basic Science course);
- pass all courses counted towards the Faculty Program with **a grade of C or higher**;
- confirm that their course selection satisfies the required components of the MSE Core and their chosen Domain, and that the complementary courses are approved courses in their chosen Domain; and
- fulfil all Faculty requirements as specified for the B.A. in [Faculty of Arts > Undergraduate > section 3.6: Faculty Degree Requirements](#), which include meeting the minimum credit requirement as specified in their letter of admission.

#### 7.7.2.1 Ecological Determinants of Health in Society Domain

This domain is open only to students in the B.A. Faculty Program in Environment.

Adviser	Mentor
Ms. Kathy Roulet	Professor Marilyn Scott

Adviser	Mentor
Telephone: 514-398-4306 Email: <a href="mailto:kathy.roulet@mcgill.ca">kathy.roulet@mcgill.ca</a>	Telephone: 514-398-7996 Email: <a href="mailto:marilyn.scott@mcgill.ca">marilyn.scott@mcgill.ca</a>

### 7.7.2.1.1 Bachelor of Arts (B.A.) - Faculty Program Environment - Ecological Determinants of Health in Society (54 credits)

An understanding of the interface between human health and environment depends not only on an appreciation of the biological and ecological determinants of health, but equally on an appreciation of the role of social sciences in the design, implementation, and monitoring of interventions. Demographic patterns and urbanization, economic forces, ethics, indigenous knowledge and culture, and an understanding of how social change can be effected are all critical if we are to be successful in our efforts to assure health of individuals and societies in the future. Recognizing the key role that nutritional status plays in maintaining a healthy body, and the increasing importance of infection as a health risk linked intimately with the environment, this domain prepares students to contribute to the solution of problems of nutrition and infection by tying the relevant natural sciences to the social sciences.

#### Program Prerequisites or Corequisites

To graduate from the Faculty Program in Environment, students are required to complete these courses by the end of their U1 year. These courses can be taken using the Satisfactory/Unsatisfactory option. See: [http://www.mcgill.ca/study/university\\_regulations\\_and\\_resources/undergraduate/gi\\_courses\\_taken\\_under\\_the\\_satisfactory\\_unsatisfactory\\_option](http://www.mcgill.ca/study/university_regulations_and_resources/undergraduate/gi_courses_taken_under_the_satisfactory_unsatisfactory_option) for details.

#### Numeracy

3 credits from the following, or equivalent (e.g., CEGEP objective 00UN):

MATH 139	(4)	Calculus I with Precalculus
MATH 140	(3)	Calculus I

#### Basic Science

3 credits of basic science from the following, or equivalent (e.g., CEGEP objective 00UK):

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 "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)).

#### Program Requirements

Note: You are required to take a maximum of 30 credits at the 200 lev

AEBI 427

(6)

Barbados Interdisciplinary Project  
Sustainable Dev



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  
ENVB 410 (3) Ecosystem Ecology  
ENVB 500 (3) Advanced Topics in Ecotoxicology  
NRSC 451\* (3) Research in Ecology and Development in Africa

### **Pollution Control and Pest Management**

ENTO 350 (3) Insect Biology and Control  
ENTO 352 (3) Biocontrol of Pest Insects  
NRSC 333 (3) Pollution and Bioremediation  
P (3) Water, Health and Sanitation



## Social Change and Influences

ANTH 227	(3)	Medical Anthropology
ENVR 430	(3)	The Economics of Well-Being
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 249	(3)	Health and the Healer in Western History
SOCI 307	(3)	Globalization
URBP 520	(3)	Globalization: Planning and Change

## Immunology and Infectious Disease

\* Note: You may take MIMM 413 or WILD 424, but not both.

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.

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
Ms. Kathy Roulet Telephone: 514-398-4306 Email: <a href="mailto:kathy.roulet@mcgill.ca">kathy.roulet@mcgill.ca</a>	Professor Jeanne Paquette Telephone: 514-398-4402 Email: <a href="mailto:jeanne.paquette@mcgill.ca">jeanne.paquette@mcgill.ca</a>

#### 7.7.2.2.1 Bachelor of Arts (B.A.) - Faculty Program Environment - Economics and the Earth's Environment (54 credits)

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. This knowledge is not always enough, as economics often plays a controlling role in how we use and abuse our environment.

This domain educates students in the fundamentals of economics and Earth sciences. The fundamentals of economics are provided, as is their application to the effects of economic choices on Earth's environment. Examples of these applications include the economic effects of public policy toward resource industries and methods of waste disposal, and the potential effects of global warming on the global economy. Students also learn of minerals, rocks, soils, and waters that define much of Earth's environment and ho

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:

AGEC 333 (3) Resource Economics  
 ECON 209 (3) Macroeconomic Analysis and Applications  
 ECON 326 (3) Ecological Economics  
 ECON 347 (3) Economics of Climate Change  
 ECON 416 (3) Topics in Economic Development 2  
 ECON 511 (3) Energy, Economy and Environment

**Advanced Courses (9 credits)**

9 credits chosen from two areas:

**Area 1: Development/Environmental Management**

\* Note: You can take ENVB 529 or GEOG 201 but not both; you can take BIOL 451 or NRSC 451 but not both; you can take ANTH 451 or GEOG 451 but not both.

AEBI 423 (3) Sustainable Land Use  
 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  
 ECON 305 (3) Industrial Organization  
 ECON 313 (3) Economic Development 1  
 ECON 314 (3) Economic Development 2  
 ECON 408 (3) Public Sector Economics 1  
 ECON 409 (3) Public Sector Economics 2

ENVB 437	(3)	Assessing Environmental Impact
ENVB 529*	(3)	GIS for Natural Resource Management
ENVR 421	(3)	Montreal: Environmental History and Sustainability
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 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
HIST 510	(3)	Environmental History of Latin America (Field)
MIME 320	(3)	Extraction of Energy Resources
NRSC 451*	(3)	Research in Ecology and Development in Africa
URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

### Area 2: Environmental Resources

\* Note: You can take BREE 217 or GEOG 322 but not both; you can take BIOL 308 or ENVB 305 but not both.

AGRI 452	(3)	Water Resources in Barbados
BIOL 308*	(3)	Ecological Dynamics
BREE 217*	(3)	Hydrology and Water Resources
ENVB 305*	(3)	Population & Community Ecology
EPSC 355	(3)	Sedimentary Geology
EPSC 549	(3)	Hydrogeology
GEOG 305	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
SOIL 300	(3)	Geosystems

### 7.7.2.3 Environment and Development Domain

This domain is open only to students in the B.A. Faculty Program in Environment.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306	Prof. Gregory Mikkelson Telephone: 514-398-4583 Email: <a href="mailto:gregory.mikk">gregory.mikk</a>

## Calculus

3 credits of calculus from the following, or equivalent (e.g., CEGEP objective OOUN):

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

## Basic Science

3 credits of basic science from the following, or equivalent (e.g., CEGEP objectives: Biology OOUK, Chemistry OOUL, Physics OOUR):

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1
PHYS 101	(4)	Introductory Physics - Mechanics

## Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto: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, but does not include the domain prerequisites or corequisites listed above.

Location Note: When planning your program, 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.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

## Domain:10

## Domain: Complementary Courses (21 credits)

21 credits of complementary courses are chosen from various categories as follows:

### Microeconomics

One of:

AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	Microeconomic Analysis and Applications

### 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
PSYC 204	(3)	Introduction to Psychological Statistics

### Advanced Development Courses

6 credits from:

AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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 & 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
GEOG 451	(3)	Research in Society and Development in Africa
GEOG 496	(3)	Geographical Excursion
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
GEOG 514	(3)	Climate Change Vulnerability and Adaptation
HIST 510	(3)	Environmental History of Latin America (Field)
MGPO 440	(3)	Strategies for Sustainability
NRSC 221*	(3)	Environment and Health
POLI 445	(3)	International Political Economy: Monetary Relations
URBP 507	(3)	Planning and Infrastructure

### 7.7.3 Bachelor of Arts and Science (B.A. & Sc.) – Interfaculty Programs

These Interfaculty Programs are open only to students in the B.A. & Sc. degree.

To obtain a **B.A. & Sc. Interfaculty Program in Environment** or a **B.A. & Sc. Interfaculty Program in Sustainability, Science and Society**, students must:

- register in the Interfaculty Program online, using Minerva;
- pass all courses counted toward the Interfaculty Program with a grade of C or higher;
- confirm that their course selection satisfies the required and complementary course components of the program;
- fulfil all requirements specified for the B.A. & Sc. in *Bachelor of Arts & Science* > *Undergraduate* > *section 4.5: Degree Requirements*, which include meeting the minimum credit requirement as specified in their letter of admission.

**Adviser – *section 7.7.3.1: Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Environment (54 credits)***

Ms. Kathy Roulet, MSE Program Adviser  
 Telephone: 514-398-4306  
 Email: [kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)

**Adviser – *section 4.10.35.3: Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program in Sustainability, Science and Society (54 credits)***

Prof. Graham MacDonald  
 Email: [graham.macdonald@mcgill.ca](mailto:graham.macdonald@mcgill.ca)

**7.7.3.1 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Environment (54 credits)**

The growth of technology, globalization of economies, and rapid increases in population and per capita consumption have all had dramatic environmental impacts. The Interfaculty Program Environment for the Bachelor of Arts and Science is designed to provide students with a broad "Liberal Arts/Science" training. In combination with careful mentoring, this program offers a great degree of flexibility, allowing students to develop the skills and knowledge base required to face the myriad of environmental problems that currently need to be addressed.

**Program Requirements**

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 Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

**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

**Complementary Courses (36 credits)**

36 credits of complementary courses are selected as follows:

3 credits - Senior Research Project

3 credits - Statistics

30 credits - chosen from amongst 12 Areas of focus

**Senior Research Project**

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

**Statistics:**

One of:

AEMA 310	(3)	Statistical Methods 1
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

**Areas:**

30 credits from at least three of the following Areas. At least 6 credits must be at the 400 level or higher, selected either from these lists or in consultation with the Program Adviser.

**Area 1: Population, Community, and Ecosystem Ecology**

\* Note: You may take BIOL 540 or ENVR 540, but not both; you may take BIOL 308 or ENVB 305, but not both.

BIOL 308*	(3)	Ecological Dynamics
BIOL 432	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 540*	(3)	Ecology of Species Invasions
ENVB 305*	(3)	Population & 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 & 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
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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 540	(3)	Socio-Cultural Issues in Water

#### Area 5: Human Health

NUTR 307	(3)	Metabolism and Human Nutrition
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 3442	(3)	Foundations of Environmental Economics

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
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	(3)	Religion and the Sciences
RELG 370	(3)	Religion and Human Rights

**Area 12: Environmental Management**

\* Note: If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

AGRI 210	(3)	Agro-Ecological History
AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2

NRSC 333	(3)	Pollution and Bioremediation
WILD 401	(4)	Fisheries and Wildlife Management
WILD 415*	(2)	Conservation Law
WOOD 441	(3)	Integrated Forest Management

### **7.7.3.2 Bachelor of Arts and Science (B.A. & Sc.) – Interfaculty Program in Sustainability, Science and Society**

The Interfaculty Program in Sustainability, Science and Society is open only to students in the B.A. & Sc. degree.

**Adviser:**

Prof. Graham Macdonald

Email: [graham.macdonald@mcgill.ca](mailto:graham.macdonald@mcgill.ca)

For further information about this program, see [Bachelor of Arts and Science](#) > [Undergraduate](#) > [Browse Academic Units & Programs](#) > [Sustainability, Science and Society](#) > [section 4.10.35.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability](#)

**Adviser**

Ms. Kathy Roulet  
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**7.7.4.1.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Biodiversity and Conservation (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.

This domain links the academic study of biological diversity with the applied field of conservation biology. The study of biological diversity, or "biodiversity," lies at the intersection of evolution with ecology and genetics, combining the subdisciplines of evolutionary ecology, evolutionary genetics, and ecological genetics. It has two main branches: the creation of diversity and the maintenance of diversity. Both processes are governed by a general mechanism of selection acting over different scales of space and time. This gives rise to a distinctive set of principles and generalizations that regulate rates of diversification and levels of diversity, as well as the abundance or rarity of different species. Conservation biology constitutes the application of these principles in the relevant social and economic context to the management of natural systems, with the object of preventing the extinction of rare species and maintaining the diversity of communities. As the impact of industrialization and population growth on natural systems has become more severe, conservation has emerged as an important area of practical endeavour.

**Suggested First Year (U1) Courses**

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto: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 reT32 Tm(, e)Tj1 cin the B.Sshll.d 1 308.731 4535Tm0 0 04gstier scT32fy ws p 0 ach e, am.

9 credits - Interface between Science, Policy, and Management

3-4 credits - Field Courses

6 credits - General Scientific Principles

3 credits - Social Science

6 credits - Organisms and Diversity

**Biological Principles of Diversity/Systematics/Conservation:**

9 credits are chosen from basic courses in the biological principles of diversity, systematics, and conservation as follows:

3 credits from:

AEBI 212	(3)	Evolution and Phylogeny
BIOL 304	(3)	Evolution

3 credits from:

AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity

3 credits from:

BIOL 465	(3)	Conservation Biology
WILD 421	(3)	Wildlife Conservation

**Ecology:**

3 credits from:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & 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 Research in Ecology and De

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 306*	(3)	Raster Geo-Information Science
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.



ENTO 352	(3)	Biocontrol of Pest Insects
ENTO 440	(3)	Insect Diversity
ENVR 540**	(3)	Ecology of Species Invasions
PARA 424	(0)	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

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 Course (6 credits)**

GEOG 403	(3)	Global Health and Environmental Change
PARA 410	(3)	Environment and Infection

**Domain: Complementary Courses (36 credits)**

36 credits of the complementary courses are selected as follows:

18 credits - Fundamentals, 3 credits from each category

12 credits - Human Health, maximum of 3 credits from any one category

6 credits - Natural Environment, maximum of 3 credits from any one category

**Fundamentals:**

18 credits of Fundamentals, 3 credits from each category.

**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**

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

**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

**Human Health:**

12 credits chosen from Human Health, maximum of 3 credits from any one category:

**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

PARA 515 (3) Water, Health and Sanitation

### 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 432	(3)	Limnology
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 304	(3)	Biology of Fungi
PLNT 460	(3)	Plant Ecology

#### 7.7.4.2.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Ecological Determinants of Health- Population (63 credits)

The Population 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 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 "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto: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.

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 Course (3 credits)**

PARA 410	(3)	Environment and Infection
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**Domain: Complementary Courses (39 credits)**

39 credits of complementary courses are selected as follows:

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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 giv

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).

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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

### **Envir**

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.

Statistics courses BIOL 373 OR AEMA 310 can be taken in U1, but do not take them if you want to follow Option 1 (below), as they overlap with MATH 324.

### **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:0 1um of 1) courses1**

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:

BREE 217	(3)	Hydrology and Water Resources
CIVE 323	(3)	Hydrology and Water Resources
ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment
GEOG 322	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography

### Statistics:

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 "Course Overlap" information in the "Course Requirements" section for the Faculty of Science. Several Statistics courses overlap (especially with MATH 324) and cannot be taken together. These rules do not apply to B.Sc.(Ag.Env.Sc.) students.

#### Option 1

MATH 323	(3)	Probability
MATH 324	(3)	Statistics

#### Option 2

One of:

One of:	(3)	Statistical Methods 1
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**List 1**

3 credits minimum of statistics and mathematics chosen from:

\* Note: or equivalent courses to BREE 252 or BREE 319.om:

**Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Food Production and Environment (63 credits)**

**Domain: Required Courses (6 credits)**

AEBI 210	(3)	Organisms 1
A	(3)	Principles of Ecological Agriculture



## **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.

\*\* Note: If WILD 415 is tak



#### **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, CO<sub>2</sub>, 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 "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto: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 Society, EnSociety
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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

### **GIS and Remote Sensing Techniques**

One of:

ENVB 529	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

### **Weather and Climate**

One of:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

### **Fundamental Land Surface Processes:**

9 credits of fundamental land surface processes chosen as follows:

GEOG 321	(3)	Climatic Environments
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And/or one of:

GEOG 272	(3)	Earth's Changing Surface
SOIL 300	(3)	Geosystems

BIOL 465	(3)	Conservation Biology
CHEE 230	(3)	Environmental Aspects of Technology
CIVE 225	(4)	Environmental Engineering
ENVB 305*	(3)	Population & Community Ecology
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis
ESYS 301	(3)	Earth System Modelling
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
WILD 421	(3)	Wildlife Conservation
WOOD 420	(3)	Environmental Issues: Forestry
WOOD 441	(3)	Integrated Forest Management

**Field Course:**

One of:

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:**

One of:

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ECON 405	(3)	Natural Resource Economics
ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 221	(3)	Environment and Health
GEOG 408	(3)	Geography of Development
GEOG 498	(3)	Humans in Tropical Environments
NRSC 221	(3)	Environment and Health
URBP 520	(3)	Globalization: Planning and Change

12 credits total of advanced studies chosen from the following two lists:

**List A - Particular Environments:**

3-9 credits of advanced study of Particular Environments:

\* Note: You may take BIOL 432 or ENVB 315, but not both.

BIOL 432*	(3)	Limnology
ENVB 315*	(3)	Science of Inland Waters
ENVB 410	(3)	Ecosystem Ecology

GEOG 350	(3)	Ecological Biogeography
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
GEOG 536	(3)	Geocryology
GEOG 550	(3)	Historical Ecology Techniques
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology

#### List B - Surface Processes:

3-9 credits advanced study of Surface Processes:

ATOC 315	(3)	Thermodynamics and Convection
BREE 509	(3)	Hydrologic Systems and Modelling
EPSC 549	(3)	Hydrogeology
EPSC 580	(3)	Aqueous Geochemistry
GEOG 501	(3)	Modelling Environmental Systems
GEOG 505	(3)	Global Biogeochemistry
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 331	(3)	Environmental Soil Physics
SOIL 510	(3)	Environmental Soil Chemistry

#### 7.7.4.6 Renewable Resource Management 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: <a href="mailto:kathy.roulet@mcgill.ca">kathy.roulet@mcgill.ca</a>	Professor Joann Whalen Telephone: 514-398-7943 Email: <a href="mailto:joann.whalen@mcgill.ca">joann.whalen@mcgill.ca</a>

#### 7.7.4.6.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Renewable Resource Management (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.

Renewable resource management is an emerging field that focuses on the ecosystem structures and processes required to sustain the delivery, to humanity, of ecosystem goods and services such as food, clean water and air, essential nutrients, and the provision of beauty and inspiration. Renewable resource management recognizes humans as integral components of ecosystems and is used to develop goals that are consistent with sustainability and ecosystem maintenance.

The Renewable Resource Management domain provides students with an understanding of: 1) the interactions between physical and biological factors that determine the nature and dynamics of populations and entities in the natural environment; 2) the ways in which ecosystems can be managed to meet specific goals for the provision of goods and services; 3) the economic and social factors that determine how ecosystems are managed; 4) the ways in which management of natural resources can affect the capability of natural ecosystems to continue to supply human needs in perpetuity; and 5) the approaches and technologies required to monitor and analyze the dynamics of natural and managed ecosystems.

#### Program Prerequisites or Corequisites

All students in this program MUST take the following pre- or corequisite courses:

One of the following biology courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

BIOL 112	(3)	Cell and Molecular Biology
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LSCI 211 (3) Biochemistry 1

One of the following chemistry courses or CEGEP equivalent (e.g., CEGEP objective 00XV):

CHEM 212 (4) Introductory Organic Chemistry 1

FDSC 230 (4) Organic Chemistry

### Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Ms. Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto: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, but does not include the domain prerequisites or corequisites listed above.

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)

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.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

### Domain: Complementary Courses (42 credits)

42 credits of complementary courses are selected as follows:

9 credits - Basic Principles of Ecosystem Processes and Diversity

6 credits - 3 credits from each category of Statistics and GIS

6 credits - Advanced Ecosystem Components

6 credits - Advanced Ecological Processes

6 credits - Social Processes

9 credits - Ecosystem Components or Management of Ecosystems

### Basic Principles of Ecosystem Processes:

9 credits of basic principles of ecosystem processes and diversity are selected as follows:

One of:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
BIOL 305	(3)	Animal Diversity

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

**Statistics**

One of:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

**GIS Methods**

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:

\* If WILD 415 is taken, 1 additional credit of complementary courses must be taken.

\*\* 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
GEOG 382	(3)	Principles Earth Citizenship
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment
URBP 520	(3)	Globalization: Planning and Change
WILD 415*	(2)	Conservation Law

### Ecosystem Components or Management of Ecosystems:

9 credits of ecosystem components or management of ecosystems selected from:

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
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
PLNT 400	(3)	Cropping Systems
WILD 401	(4)	Fisheries and Wildlife Management
WOOD 441	(3)	Integrated Forest Management

#### 7.7.4.7 Water Environments and Ecosystems Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment programs.

#### Water Environments and Ecosystems – Biological

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: <a href="mailto:kathy.roulet@mcgill.ca">kathy.roulet@mcgill.ca</a>	Professor Brian Leung Telephone: 514-398-6460 Email: <a href="mailto:brian.leung2@mcgill.ca">brian.leung2@mcgill.ca</a>

#### Water Environments and Ecosystems – Physical





**Domain: Complementary Courses (33 credits)**

33 credits of complementary courses are selected as follows:

6 credits - Hydrology/Water Resources, Population/Community and Ecology

3 credits - Math and Statistics

3 credits - Field Course

3 credits - Social Sciences and Policy

18 credits chosen in total from List A and List B

**Hydrology/Water Resources, Population/Community and Ecology:**

6 credits selected as follows:

One of:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

And one of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

**Math and Statistics:**

One of:

\* Note: AEMA 310 or equivalent

AEMA 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
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
GEOG 495	(3)	Field Studies - Physical Geography

**Social Sciences and Policy:**

One of:

AGEC 333	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 422	(3)	Montreal Urban Sustainability Analysis

GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
POLI 345	(3)	International Organizations
URBP 520	(3)	Globalization: Planning and Change

18 credits chosen in total from List A and List B as follows:

#### List A

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; you may take BIOL 432 or ENVB 315, but not both.

AGRI 435	(3)	Soil and Water Quality Management
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
ENTO 535	(3)	Aquatic Entomology
ENVB 210*	(3)	The Biophysical Environment
ENVB 315*	(3)	Science of Inland Waters
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 305*	(3)	Soils and Environment
GEOG 350	(3)	Ecological Biogeography
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
WILD 401	(4)	Fisheries and Wildlife Management

#### List B

6-9 credits chosen from:

\* Note: you may take ATOC 219 or CHEM 219, but not both; you may take ATOC 519 or CHEM 519, but not both; you may take ENVB 529 or GEOG 201, but not both.

ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 519*	(3)	Advances in Chemistry of Atmosphere
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 519*	(3)	Advances in Chemistry of Atmosphere
ENVB 529*	(3)	GIS for Natural Resource Management
EPSC 220	(3)	Principles of Geochemistry
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

GEOG 372	(3)	Running Water Environments
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques

#### **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)**

This concentration (60 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.

To educate students in both the ecological and physical facets of the water environment, this domain offers two concentrations, with students choosing one or the other.

Students interested in studying the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere, will select the Physical concentration. They will acquire, as well, a solid background in the biological processes taking place in water bodies. Those electing the Biological concentration will focus on the mechanisms regulating the different forms of life in water bodies. They will acquire, as well, a good understanding of the physical mechanisms controlling water properties.

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 "MSE Student Handbook" available on the MSE website (<http://www.mcgill.ca/mse>), or contact Kathy Roulet, the Program Adviser ([kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)).

#### **Program Requirements**

Note: Students are required to take a maximum of 30 credits at the 200 lev

**Domain: Complementary Courses (30 credits)**

30 credits of complementary courses are selected as follows:

6 credits - Hydrology/Water Resources, Population, Community and Ecology

3 credits - Statistics or Calculus

3 credits - Field course

12 credits chosen from List A

6 credits chosen from List B

**Hydrology/Water Resources, Population/Community and Ecology**

6 credits selected as follows:

One of:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

And one of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population & Community Ecology

**Statistics or Calculus:**

One of:

\* Note: AEMA 310 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 202	(3)	Intermediate Calculus
AEMA 310*	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1
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
GEOG 495	(3)	Field Studies - Physical Geography

**List A:**

12 credits chosen from:

AGRI 435	(3)	Soil and Water Quality Management
ATOC 309	(3)	Weather Radars and Satellites
ATOC 568	(3)	Ocean Physics
BREE 416	(3)	Engineering for Land Development
CIVE 323	(3)	Hydrology and Water Resources
EPSC 549	(3)	Hydrogeology
GEOG 201	(3)	Introductory Geo-Information Science

GEOG 308	(3)	Principles of Remote Sensing
GEOG 537	(3)	Advanced Fluvial Geomorphology
NRSC 510	(3)	Agricultural Micrometeorology
URBP 520	(3)	Globalization: Planning and Change

And/or one of:

AEMA 305	(3)	Differential Equations
MATH 315	(3)	Ordinary Differential Equations

And/or one of:

BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling

And/or one of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

And/or one of:

ENVB 529	(3)	GIS for Natural Resource Management
GEOG 306	(3)	Raster Geo-Information Science

**List B:**

6 credits chosen from:

\* Note: You can take BIOL 432 or ENVB 315, but not both.

BIOL 342	(3)	Contemporary Topics in Aquatic Ecology
BIOL 432*	(3)	Limnology
BIOL 441	(3)	Biological Oceanography
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
ENVB 315*	(3)	Science of Inland Waters
GEOG 350	(3)	Ecological Biogeography
GEOG 505	(3)	Global Biogeochemistry
WILD 401	(4)	Fisheries and Wildlife Management

**7.7.5 Major in Environment – B.Sc.**

In addition to the domains available to students in the Major program in either the F

Atmospheric Envir

ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 315	(3)	Thermodynamics and Convection
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
GEOG 308	(3)	Principles of Remote Sensing

### Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

6 credits - Analytical Chemistry/Calculus courses

3 credits - Statistics

9 credits - Math or Physical Science

6 credits - Social Science

### Analytical Chemistry/Calculus:

One of (students will not receive credit for both):

AEMA 202	(3)	Intermediate Calculus
MATH 222	(3)	Calculus 3

Note: Students take either CHEM 267 or FDSC 213.

CHEM 267	(3)	Introductory Chemical Analysis
FDSC 213	(3)	Analytical Chemistry 1

### Statistics:

3 credits of Statistics courses or equivalent from:

AEMA 310	(3)	Statistical Methods 1
MATH 203	(3)	Principles of Statistics 1

### Math or Physical Science:

9 credits of Math or Physical Science (at least 6 credits of which are at the 300 level or above):

\* Note: You may take ATOC 519 or CHEM 519, but not both; you may take AEMA 305 or MATH 315, but not both.

AEMA 305*	(3)	Differential Equations
ATOC 309	(3)	Weather Radars and Satellites
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)	Urban Activity, Air Pollution, and Health
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

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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)**

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
		Advanc 0 1 221.949 510.ENTH 451*

## 7.7.6 Honours Program in Environment

### Adviser

Ms. Kathy Roulet, MSE Program Adviser  
 Telephone: 514-398-4306  
 Email: [kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)

This Program is open only to students in the B.Sc. Major in Environment, B.Sc.(Ag.Env.Sc.) Major in Environment, B.A. Faculty Program in Environment, and the B.A. & Sc. Interfaculty Program in Environment.

The Honours Program in Environment offers students the opportunity to undertake a year-long research project in close association with a professor. Honours research provides excellent preparation for graduate studies, but is not required for such studies. The Honours in Environment **adds 6 credits of research to the regular Environment program**. Since the Honours research is carried out in the final year at the same time as the regular courses, it does not add to the length (duration) of the degree. Students simply have 6 fewer credits of electives. If, for some reason, students cannot complete the Honours requirements, they may still graduate with the regular Environment program.

### 7.7.6.1 Bachelor of Arts (B.A.) - Honours Environment (60 credits)

This program is open only to students in the B.A. Faculty Program Environment. To be eligible for Honours, students must satisfy the requirements set by their B.A. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. Arts (B.A.) students in the Honours Environment program must also complete a minor concentration in an academic unit other than the McGill School of Environment. Please refer to the Faculty of Arts regulations on Honours programs found under "Faculty Degree Requirements", "About Program Requirements" and "Departmental Programs".

Students in the B.A. Honours programs complete the core and domain courses (54 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

### Honours Required Courses (6 credits)

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

### 7.7.6.2 Bachelor of Science (B.Sc.) - Honours Environment (72 credits)

This program is open only to students in the B.Sc. Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc. Honours programs complete the core and domain courses (60 to 66 credits) according to their chosen domain as well as the 6 credits of Honours required courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

### **Honours Required Courses (6 credits)**

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

### **7.7.6.3 Bachelor of Arts and Science (B.A. & Sc.) - Honours Environment (60 credits)**

This program is open only to students in the B.A. & Sc. Interfaculty Program Environment.

To be eligible for Honours, students must satisfy the requirements set by their B.A. & Sc. degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.
5. B.A. & Sc. 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 Honours program and their Minor concentration or Minor program. For a list of available Minor concentrations or Minor programs, see "Overview of Programs Offered" and "Minor Concentrations or Minors."

Students in the B.A. & Sc. Honours programs complete the coursework (54 credits) for the Interfaculty Program in Environment as well as the Honours required courses (6 credits).

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

### **Honours Required Courses (6 credits)**

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

### **7.7.6.4 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Environment (69 credits)**

**Revision, May 2019. Start of revision.**

This program is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment. To be eligible for Honours, students must satisfy the requirements set by their B.Sc.(Ag.Env.Sc.) degree.

In addition, students must satisfy the following:

1. Students apply for the Honours program in March of their U2 year. See the Program Adviser for details.
2. Applicants must have a minimum Program GPA (GPA of all required and complementary courses for the program in Environment taken at McGill) of 3.3 to enter the Honours program.
3. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495).
4. Students are required to achieve a minimum overall CGPA of 3.0 at graduation, and a minimum Program GPA of 3.3 to obtain Honours.

Students in the B.Sc.(Ag.Env.Sc.) Honours program complete the core and domain courses (60 to 63 credits) according to their chosen domain as well as the 6 credits of required Honours courses.

At the completion of your Honours research, you are expected to present your results at an Honours Symposium, and are required to submit a copy of your final report to the MSE Program Adviser.

**Honours - Required Courses (6 credits)**

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

Note: Students take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

Revision, May 2019. End of revision.

**7.7.7 Joint Honours Component Environment****Adviser**

Ms. Kathy Roulet, MSE Program Adviser  
 Telephone: 514-398-4306  
 Email: [kathy.roulet@mcgill.ca](mailto:kathy.roulet@mcgill.ca)

This program is open only to students in the Faculty of Arts.

The Joint Honours Component Environment offers students the opportunity to undertake a year-long, interdisciplinary research project in their final year in close association with a professor. Honours research provides excellent preparation for graduate studies, but is not required for such studies. If, for some reason, students cannot complete the Joint Honours requirements, they may still graduate with a Minor Concentration Environment.

**7.7.7.1 Bachelor of Arts (B.A.) - Joint Honours Component Environment (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".

Joint Honours students should consult an adviser in each department for approval of their course selection and their interdisciplinary honours research project.

Students will enter the Joint Honours at the end of their U1 year, and will be required to maintain a PGPA of 3.30 and an overall CGPA of 3.0. Whereas the Faculty Program Environment Honours requires the student to undertake a Minor as well, the Joint Honours Environment component does not.

This program comprises 36 credits, including: Honours research (6 credits); Environment core (21 credits); statistics (3 credits); and complementary courses (6 credits).

**Program Prerequisites or Corequisites**

The program corequisites (6-8 credits), which are common to the stand-alone Environment Honours program, are in addition to the overall credit account. Students are required to complete these courses by the end of their U1 year.

3 credits of Basic Science, one of the following, or their equivalents (e.g., CEGEP objectives Biology 00UK, Chemistry 00UL, Physics 00UR):

BIOL 111	(3)	Principles: Organismal Biology
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
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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
	(3)	Honours Research



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

ST 308 The Industrial Revolution in Western History



SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City Planning for Active T

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
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 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
GEOG 321	(3)	Climatic Environments
GEOG 322**	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
GEOG 550	(3)	Historical Ecology Techniques
LSCI 230**	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211**	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 323	(3)	Microbial Physiology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PHYS 228	(3)	Energy and the Environment
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology
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](#).

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## 8 Faculty of Law

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### 8.1 Legal Education at McGill

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Email: [grad.law@mcgill.ca](mailto:grad.law@mcgill.ca)

## 8.1.2 Administrative Officers and Staff

### Faculty Administrative Officers

**Faculty Administrative Staff**

Michelle Sarazin (on leave)

**Administrative Coordinator**

Gina Sebastiao

**Room Bookings Coordinator**

Libby Parker

**Administrative Coordinator**

Sharon Webb

**Administrative Coordinator**

Jane Yee

**Payroll and Events Coordinator**

Lianne Barski (on developmental assignment)

**Senior Administrative and Student Affairs Coordinator**

Nozomi Kanekatsu (on developmental assignment)

**Senior Administrative and Student Affairs Coordinator (Graduate Studies)**

Nabil Saliba

**Student Affairs Coordinator**

## Teaching Faculty

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.), DPhil(Oxf.) (*joint appt with Institute for Health and Social Policy*)

Andrea Bjorklund; B.A.(Nebraska), M.A.(NYU), J.D.(Yale) (*L. Yves Fortier Chair in International Arbitration and International Commercial Law*)

Adelle Blackett; B.A.(Qu.), LL.B., B.C.L.(McG.), LL.M., J.S.D.(Col.) (*Canada Research Chair (Tier I) in Transnational Labour Law and Development*)

Angela Campbell; B.A., B.C.L., LL.B.(McG.), LL.M.(Harv.)

Allison Christians; J.D.(Col.), LL.M.(NYU School of Law) (*H. Heward Stikeman Chair in the Law of Taxation*)

Ignacio Cofone; LL.B. (Austral), M.A. (Bologna), Ph.D. (Erasmus), LL.M., J.S.D. (Yale)

François Crépeau; B.C.L., LL.B.(McG.), D.E.A.(Paris II), LL.D.(Paris I) (*Hans and Tamar Oppenheimer Chair in Public International Law*)

Helge Dedek; Assessor iuris(First and Second German State Examination in Law), LL.M.(Harv.), Ph.D.(Bonn)

Jaye Ellis; B.A.(Calg.), LL.B., B.C.L.(McG.), LL.M.(Br. Col.), D.C.L.(McG.)

Yaëll Emerich; B.C.L., LL.M., D.E.A.(Paris II), Docteur en droit(Lyon/Montr.), Postdoc.(McG.)

Kun Fan; LL.B.(China Foreign Affairs), LL.M.(NYU), LL.M.(Paris XII), Ph.D.(Geneva)

Omar Farahat; Licence(Cairo)/Maîtrise(Paris I), LL.M.(Harv.), M.A.(NYU), Ph.D.(Col.)

Vincent Forray; D.E.A., D.C.L. (Univ. de Savoie)

Evan F

## Teaching Faculty

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.)

Mark Walters; B.A.(Western), LL.B.(Qu.), D.Phil.(Oxf.) (*F.R. Scott Professor of Public and Constitutional Law*)

Daniel Weinstock; B.A., M.A.(McG.), D.Phil.(Oxf.) (*James McGill Professor*)

## 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.)

Martine De Serres; B.Sc.(McG.), LL.B.(Sher.), LL.M.(McG.)

Marie Deschamps; LL.B.(Montr.), LL.M.(McG.)

Jeffrey Edwards; B.C.L., LL.B.(McG.), LL.D.(Laval)

Pearl Eliadis; B.Sc., B.C.L., LL.B.(McG.), B.C.L.(Oxf.)

Morris Fish; B.A., B.C.L.(McG.), LL.D.(Hon. Causa)(McG., Yeshiva)

P. Paul Fitzgerald; B.A.(Laval), B.C.L., LL.B.(McG.), M.B.A.(Western), D.C.L.(McG.)

Marc Gold; B.A.(McG.), LL.B.(Br. Col.), LL.M.(Harv.)

Sunny Handa; B.Com.(McG.), LL.B.(Tor.), LL.M., D.C.L.(McG.)

Andrew Harakas; B.A.(Mich.), LL.B.(Juris Doctor)(Mich. St.), LL.B.(Witw.), D.C.L.(McG.)

Patrick Healy; B.A.(Vic., BC), B.C.L.(McG.), LL.M.(Tor.)

David Howes; B.A.(Tor.), M.Litt.(Oxf.), B.C.L., LL.B.(McG.), Ph.D.(Montr.)

Peter Nesgos; D.C.L.(McG.)

Louise Otis; LL.B.(Laval)

Robert Raizenne; B.A.(C'odia), M.A.(Tor.), B.C.L.(McG.)

Francis P. Schubert; B.C.L., D.E.S. Rel. intern., Ph.D. Law(Geneva)

Peter Van Fenema; LL.M.(McG.)

Ludwig Weber; Lic iur. Dr. Jur.(Heidel.), LL.M.(McG.)

James Woods; B.A., B.C.L., LL.B.(McG.)

## Emeritus and Retired Professors

Jean-Guy Belley; LL.L., LL.M.(Laval), Doctorat en sociologie juridique(Paris II) (*Sir William C. Macdonald Emeritus Professor of Law*)

Madeleine Cantin Cumyn; B.A., LL.L.(Laval) (*Wainwright Emeritus Professor of Civil Law*)

**Emeritus and Retired Professors**

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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 [www.mcgill.ca/law-studies/law-student-affairs-office](http://www.mcgill.ca/law-studies/law-student-affairs-office).

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## 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](http://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](http://www.barreau.qc.ca)  
Chambre des notaires du Québec: [www.cnq.org](http://www.cnq.org)  
École du barreau du Québec: [www.ecoledubarreau.qc.ca](http://www.ecoledubarreau.qc.ca)  
Law Society of Alberta: [www.lawsociety.ab.ca](http://www.lawsociety.ab.ca)  
Law Society of British Columbia: [www.lawsociety.bc.ca](http://www.lawsociety.bc.ca)  
Law Society of Manitoba: [www.lawsociety.mb.ca](http://www.lawsociety.mb.ca)  
Law Society of New Brunswick: [www.lawsociety-barreau.nb.ca](http://www.lawsociety-barreau.nb.ca)  
Law Society of Newfoundland: [www.lawsociety.nf.ca](http://www.lawsociety.nf.ca)  
Law Society of the Northwest Territories: [www.lawsociety.nt.ca](http://www.lawsociety.nt.ca)  
Law Society of Nunavut: [www.lawsociety.nu.ca](http://www.lawsociety.nu.ca)  
Law Society of Prince Edward Island: [www.lawsocietypei.ca](http://www.lawsocietypei.ca)  
Law Society of Saskatchewan: [www.lawsociety.sk.ca](http://www.lawsociety.sk.ca)  
Law Society of Ontario: [www.lso.ca](http://www.lso.ca)  
Law Society of Yukon: [www.lawsocietyyukon.com](http://www.lawsocietyyukon.com)  
Nova Scotia Barristers' Society: [nsbs.org](http://nsbs.org)

### 8.3.2 Admission to the Legal Profession: The United States

The LL.B. 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](http://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.

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## 8.4 Career Development Office

The programs offered by the F

For complete information on the Nahum Gelber Law Library please visit our website: [www.mcgill.ca/library/branches/law](http://www.mcgill.ca/library/branches/law).

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## **8.6 Research Centres**

Two research institutes are affiliated to the Faculty of Law: the Institute of Comparative Law (ICL); and the Institute of Air and Space Law (IASL).

The Faculty of Law also supports several semi-independent research centres:

- the Centre for Human Rights and Legal Pluralism;
- the Centre for Intellectual Property Policy;
- the Centre for Research in Air and Space Law;
- the Paul-André Crépeau Centre for Private and Comparative Law.

### **8.6.1 Centre for Human Rights and Legal Pluralism**

This Centre is a focal point for innovative legal and interdisciplinary research, dialogue, and outreach on human rights and legal pluralism. The Centre's mission is to provide students, professors, and the larger community with a locus of intellectual resources and experiential opportunities for engaging critically with the impact that law has on some of the most compelling social problems of our era.

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## **8.7 Overview of Undergraduate Degrees Offered**

Our undergraduate Law program integrates the Civil Law and the Common Law. Consequently, students in the undergraduate program obtain a double degree of Civil Law (B.C.L.) and Common Law (LL.B.). Students may enrich their program with one of our minor, major, or honours programs, or take one of our joint degree programs in Management or Social Work. Students can also go on exchange through our Student Exchange Program, take non-course credits and outside credits, or put their learning in practice through our various internship programs.

### **8.7.1 McGill B.C.L./LL.B. Program**

The Faculty of Law's unique integrated program leads to graduation with both civil law and common law degrees (B.C.L./LL.B.).

McGill Law students are introduced to “transsystemic” teaching in the first year of the program; fundamental concepts of the civil law and common law traditions are studied within a single course. This unique method of instruction fosters analytical ability, critical reflection, and openness to diverse approaches to legal problems. Students in the McGill program must complete 105 credits. Most students take three-and-a-half or four years to complete the program. It is possible, however, to complete the program in three years by taking additional credits over the summer and by carrying heavier course loads in second and third years.

Due to the demanding nature of the BCL, LLB Program, the Faculty does not permit students to be registered in our BCL/LLB Program and another university program concurrently. In addition, the Faculty does not permit students to register in our program on a part-time basis with a view to completing other programs of studies while taking courses in our Faculty. Furthermore, the Faculty does not permit students to take leave from our program in order to complete a graduate program.

### **8.7.2 M.B.A./Law Program**

This joint program, Master of Business Administration (M.B.A.) with integrated Bachelor of Civil Law/Bachelor of Laws (B.C.L./LL.B.) is offered by the Faculty of Law and the Desautels Faculty of Management.

Candidates interested in pursuing this program must submit separate applications to the Faculty of Law and to the Desautels Faculty of Management M.B.A. program. Information about the M.B.A./Law program is available at [www](#)



The Native Law Centre (*NLC*) at the University of Saskatchewan offers a Summer Program that is designed to prepare students for the challenges and rigours of law school and to facilitate a smoother transition into the law school environment. We encourage all incoming Indigenous students to consider taking this course before beginning their legal studies.

#### **Additional Supporting Documents**

In addition to self-identifying on the application form, Indigenous applicants to the Faculty of Law are encouraged to upload one additional supporting document. This document should be a separate letter, in addition to the personal statement, and is meant to allow applicants to elaborate on their Indigenous identity in relation to their admission candidacy to McGill Law. This document may address any systemic barriers you have faced as an Indigenous person, or how your identification with and connection to your Indigenous community has affected your educational path and goals. You may also include, as part of that document, a letter of support from a representative within your community. This additional document will allow the Admissions Committee to incorporate relevant context when it is applying our Faculty's holistic admission evaluation process and to take into consideration the educational experiences particular to members of an Indigenous community.

#### **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.

#### **8.8.1.4 Honesty and Integrity in the Application Process**

McGill University and the Faculty of Law value honesty and integrity. Applicants to the Faculty of Law are expected to conduct themselves accordingly. The submission of false, incomplete, inconsistent, or misleading information, or any omission that may result in a false or misleading conclusion, constitutes misconduct in the admission process. Instances of such misconduct include, as examples: the submission of a personal statement that was not written by the applicant, and failure to disclose an LSAT score.

A finding of misconduct in the application process may lead—and has led in the past—to a refusal or, if an offer of admission has already been extended, a withdrawal of the offer at the sole discretion of the University. Intent is not an element of a finding of misconduct.

As a member school of the Law School Admissions Council (LSAC), McGill's Faculty of Law reserves the right to report any misconduct to the LSAC's [Misconduct and Irregularities in the Admissions Process Subcommittee](#) for its investigation.

#### **Application Procedures f**

### **8.8.2.3 Review of Applications**

Once an application is complete, it is circulated for review. Reviewers carefully assess all documents submitted and evaluate the candidacy according to the Faculty's Admissions Policy, and in comparison to all other candidates in the applicant pool.

### **8.8.2.4 Decisions on Applications**

The official decision of the Admissions Committee of the Faculty of Law is released by electronic mail and confirmed via the candidate's Minerva account. Decisions on individual applications cannot and will not be disclosed over the phone.

Every effort is made to inform candidates of the decision of the Admissions Committee at the earliest possible date. However, the process is labour-intensive and may extend into June. Final decision about applicants who have been placed on the waitlist may be made until the end of August.

### **8.8.2.5 Application Fee**

A non-refundable application fee is required for application to the B.C.L./LL.B. program. For current fee information, please visit the [Student Accounts](#) website. A credit card (Visa, MasterCard, or *8ericas1canno*)

#### 8.8.2.6.4 Advanced Standing Students

Applicants who hold a law degree from a Canadian or foreign university recognized by McGill must apply for admission to the B.C.L./LL.B. program under the Advanced Standing category, unless applying under the *Comité des équivalences* category (see [section 8.8.2.6.6: Comité des équivalences](#)). There are a limited number of places available for Advanced Standing applicants. Applications are evaluated using the same criteria as applications to the first year of the B.C.L./LL.B. program, with particular attention to performance in law studies.

As a general rule, Advanced Standing candidates have completed a law degree which would allow them to sit the Bar exam for the same jurisdiction as the one in which they completed their studies and/or would be admissible to graduate programs in law. Advanced Standing candidates applying from the French educational system must have a license (*licence en droit*); candidates holding only a DEUG are not eligible.

Successful applicants must complete a minimum of 75 credits at McGill and undertake the integrated B.C.L./LL.B. program. It is not possible to obtain either the B.C.L. or the LL.B. degree on its own. The Associate Dean (Academic) determines equivalences for previous studies.

#### 8.8.2.6.5 Transfer Students

Students who have successfully completed at least one year of full-time studies in an undergraduate program at another **Canadian law faculty** may apply for admission as a Transfer student. There are a limited number of places available for Transfer students. Transfer applications are evaluated according to the criteria for admission to the first year of the B.C.L./LL.B. program. Particular attention is paid to performance in law studies and reasons for requesting a transfer.

Successful transfer applicants must complete a minimum of 75 credits at McGill. The Associate Dean (Academic) determines credit for previous studies. In most cases, Transfer Students will be required to take the transsystemic first-year courses—Contractual Obligations and Extra-Contractual Obligations/Torts—in order to meet McGill's degree requirements. Candidates will not receive credit for courses in obligations, contracts, or torts taken during the first year completed at another law faculty.

- Transfer students should forward transcripts of Winter term results as soon as they become available. Transfer applications cannot be evaluated without these results.
- Candidates who have completed a certificate in law are not eligible to apply under the Transfer category. These candidates must apply in the category of University, Mature, or CEGEP. Courses completed in a certificate in law program cannot be credited toward a McGill law degree.
- Students who are not in good standing or who have been required to withdraw at the end of their first year at another Canadian law faculty are not eligible.





**Note:** Courses taken by Exchange students cannot be credited toward a McGill law degree.

#### **8.8.2.6.9 Special Students**

The Faculty will exceptionally permit a limited number of candidates not actively pursuing a law degree to apply as Special Students. Students registered in other universities, and candidates not actively pursuing a university degree, may apply to take certain courses within the Faculty.

Special Student status will be granted to applicants who provide compelling academic or professional reasons for taking law courses and who successfully demonstrate the capacity to undertake the requirements of the requested course(s). Status will be granted only where sufficient course space is available.

Special Students are limited to a maximum of 6 credits per term, and to 12 credits in total.

#### **Important information about this category:**

- McGill students registered in a faculty other than law, who, for exceptional reasons related to their program of study, wish to enrol in a Faculty of Law course, must obtain the permission of the

Applicants to First Year (Fall 2020)	Online Application Deadlines	Supporting Document Deadlines
University	November 1, 2019	November 8, 2019
Mature	November 1, 2019	November 8, 2019
CEGEP/Baccalaureate ( <i>Collège international Marie de France</i> and <i>Collège Stanislas</i> )	March 1, 2020	March 7, 2020
Applicants to Upper Years	Online Application Deadlines	Supporting Document Deadlines
Advanced Standing (Fall 2020)	November 1, 2019	January 15, 2020
Transfer (Fall 2020)	May 1, 2020	June 15, 2020
<i>Comité des équivalences</i> (Fall 2020 entrance)	May 1, 2020	July 1, 2020
<i>Chambre des notaires</i> (Fall 2020 entrance)	May 1, 2020	July 1, 2020
Special (Fall 2020 entrance)	August 1, 2020	August 8, 2020
Visiting (Fall 2020 and/or Winter 2021)	May 1, 2020	June 15, 2020
Incoming Exchange (Winter 2020)	September 15, 2019	October 1, 2019
Incoming Exchange (Fall 2020)	April 15, 2020	May 1, 2020
Incoming Exchange (Winter 2021)	September 15, 2020	October 1, 2020
<i>Comité des équivalences</i> (Winter 2020 entrance)	October 1, 2019	December 1, 2019
<i>Chambre des notaires</i> (Winter 2020 entrance)	October 1, 2019	December 1, 2019
Special (Winter 2020 entrance)	December 1, 2019	December 8, 2019

### 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.

Supporting documents required for all categories of applicants (unless otherwise indicated):

- [section 8.8.2.8.3: Transcripts](#)
- [section 8.8.2.8.4: Personal Statement](#)
- [section 8.8.2.8.6: Résumé](#)
- [section 8.8.2.8.7: References](#) (not required for Exchange students)
- Letter of Permission/Nomination (Visiting and Exchange students only)
- Final decision from the *Comité des équivalences* of the *Barreau du Québec* or the *Chambre des notaires du Québec* (*Comité des équivalences* applicants only)
- Photocopy of passport (Exchange students only)

The Admissions Office will obtain LSAT results directly from the Law School Admission Council for those candidates who have taken, or plan to take, the LSAT.

After completing the online application, candidates must ensure that required supporting documents are uploaded via *Minerva* (or, if necessary, mailed directly to the Admissions Office at the Faculty of Law). Documents sent by mail must be postmarked or delivered on or before the dates listed in [section 8.8.2.7: Application Deadlines for Law Undergraduate Programs](#). Documents sent by fax or email will not be accepted, unless specifically indicated in the instructions for document submission. See [section 8.8.2.8.7: References](#).

During peak periods (i.e., close to deadlines), the volume of document intake is extremely high (over 1,300 applications yearly) and there may be a delay of up to 48 hours between the receipt of a document and the date on which it is recorded in our information system. Taking this delay into consideration, candidates should contact the Undergraduate Admissions Office only if their file remains incomplete 48 hours past the deadline for supporting documents.

Documents submitted to McGill University in support of an application to be admitted, including, but not limited to transcripts, diplomas, references, and test scores (in paper or electronic format), become the property of McGill University and will not be returned to the applicant or forwarded to another institution.

#### 8.8.2.8.1 Uploading supporting documents

You **must** upload your supporting documents rather than mailing them. Uploading your documents saves you time, effort, and the expense of mailing transcripts and supporting documents to us. It prevents delays normally incurred in the processing of paper documentation, allows you to associate your documents with the correct application and requirement, and assures that your documents have been received.

Documents that can be uploaded via Minerva	Number of uploads allowed
Unofficial transcripts	Updated version accepted
Personal statement	One
Resumé	Updated version accepted
Letter of extenuating circumstance (if applicable)	One

Please see the instructions at [www.mcgill.ca/applying/nextsteps/documents/upload](http://www.mcgill.ca/applying/nextsteps/documents/upload). Documents that have been successfully uploaded to an application should not be sent by mail.

#### 8.8.2.8.2 Mailing supporting documents

Documents that have been successfully uploaded to an application **should not** be sent by mail. Below is the address for supporting documents, if submitting in person, by mail, or courier (for documents that cannot be uploaded):

Law Admissions Office  
 Faculty of Law  
 McGill University  
 New Chancellor Day Hall, Room 418  
 3644 Peel Street  
 Montreal QC H3A 1W9  
 CANADA

**Submit your documents in as early as possible.** The Admissions Committee only reviews files once complete. Only required supporting documents will be added to your file. Please refrain from sending other items, as these will not be considered part of your admission file.

Inquiries about supporting documents should be directed to:

Telephone: 514-398-6602  
 Fax: 514-398-8453  
 Email: [admissions.law@mcgill.ca](mailto:admissions.law@mcgill.ca)  
 Website: [www.mcgill.ca/law/bcl-llb](http://www.mcgill.ca/law/bcl-llb)

#### 8.8.2.8.3 Transcripts

Applicants must submit a complete academic record from all previous post-secondary studies, as well as subsequent transcripts until the applicant has received the Admissions Committee's final decision.

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 (sent to us by mail in an envelope sealed by the Registrar of the issuing institution) 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 Registrar of the issuing institution.

**Scanning your transcript** – Make sure that the page orientation of the scanned document matches the original. For example, transcripts that are printed vertically (portrait) should be scanned so that they appear in portrait format. Transcripts printed horizontally (landscape) should appear in landscape format.



**Note:** McGill University reserves the right to require official academic credentials at any time during the admissions process, and rescind any offer of admission made if discrepancies between unofficial and official transcript(s) are found.

It is the applicant's responsibility to ensure that all required transcripts are submitted as early as possible.

1. **BCI transcripts:** Applicants need not submit paper-based official transcripts of studies undertaken in Quebec universities to the Admissions Office if these transcripts are submitted electronically via the BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ) system. Transcripts submitted via the BCI system are considered official.
2. **McGill transcripts:** Applicants need not submit official transcripts of studies at McGill University to the Admissions Office. The Admissions Office obtains these results directly from McGill's Enrolment Services. Applicants who participated in an exchange during their program at McGill must submit a transcript.
3. **Exchange, Visiting, Independent studies transcripts:** Applicants must submit transcripts for results in studies carried out while on exchange or visiting another university, unless the grades as well as the credits obtained are already included on transcripts issued by their home university. Exchange programs should be indicated in the University History form of the online application.
4. **Transcripts not in French or English:** Transcripts in a language other than English or French must be accompanied by an English or French translation provided either by the school issuing the transcript or by a certified translator.

5. **CEGEP transcripts (Permanent Code):** Applicants who are currently, or have been, enrolled at a CEGEP must provide their Permanent Code. Starting **mid-October** each year, McGill will obtain official CEGEP transcripts electronically from the Government of Quebec. The processing of applications for applicants who are currently, or have been, enrolled at a CEGEP will not take place until a valid Permanent Code is provided.
6. **Quebec French Baccalaureate:** Applicants in Quebec French Baccalaureate programs must submit official transcripts.
7. **Official Electronic Transcripts:** More and more institutions offer the option to send official e-transcripts. The email address to use when requesting e-transcripts be sent to McGill is: [officialschooldocs@mcgill.ca](mailto:officialschooldocs@mcgill.ca). This email address is for the reception of **official transcripts and/or proof of graduation only** and *must be sent to us directly from the institution or 3rd party service provider* (e.g., Parchment, NSC, Digitary).
8. **Winter term transcripts for Transfer students:** Transfer students should forward the official transcript of their Winter term results as soon as they become available. Transfer applications cannot be evaluated without these results.
9. **Transcripts will not be returned:** Transcripts sent to McGill become the property of the University and will not be returned or forwarded to other institutions.
10. **Law School Data Assembly Service & Ontario Law School Application Service (OLSAS):** The Faculty of Law at McGill **does not receive** transcripts through the Law School Data Assembly Service or through OLSAS.
11. **French or English language courses:** Applicants should report in the University History form (or the Quebec Collegial Studies form) of the online application any courses taken, outside a degree program, which would contribute to their language competency and submit a transcript or certificate of completion.

#### 8.8.2.8.4 Personal Statement

Applicants must submit a 500 word essay referred to as a Personal Statement. The following is intended to assist in preparing this document.

##### What is the purpose of the Personal Statement?

The Personal Statement is your moment to showcase the unique aspects of your motivations, your background, and your personality that make you a compelling candidate for our program. The Admissions Committee relies on the Personal Statement to understand the factors that motivate you to pursue a legal education, the particular meaning that the study of law holds for you, and the reasons for your interest in our program. In addition, your Personal Statement shows the Admissions Committee your writing style, your ability to present your ideas in English and/or French, and your maturity and judgment as shown through your writing.

##### What is the Admissions Committee looking for in reading your Personal Statement?

Members of the Admissions Committee are interested in what you will bring to the study of law and to our learning community, and how you will benefit from the study of law. They look for indicators of intellectual curiosity, community engagement, political/social insight, leadership skills, ability to work with others, openness to diversity (cultural, linguistic, and otherwise), maturity, judgment, and potential for development through opportunity or adversity. The Personal Statement must be a product of your own reflection. We truly value a wide range of backgrounds, identities, and future aspirations. Whether you wish to become a practising lawyer or you have other ideas about your career path following a legal education, your application, and specifically your Personal Statement, should show thoughtful consideration of your reasons for studying law, and at our Faculty in particular.

##### Practical tips

We strongly encourage you to thoroughly research various Law faculties, comparing them to McGill, as each Law faculties will have its own strengths and particularities. Doing some research may help you identify and articulate why you are interested in studying at McGill in particular. Read our Admissions Policies 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. The Personal Statement should not be used as a vehicle for narrating or repeating your résumé. Bear in mind that you have a limited amount of writing space; make it count. Be authentic. Be yourself. Don't be afraid to be original, but don't overlook the importance of the substance. Finally, ensure that your Personal Statement follows our formatting guidelines and that it has grammatical integrity.

##### Format

The format of the Personal Statement must adhere to the following basic characteristics:

- Maximum of 500 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.

#### 8.8.2.8.5 Extenuating Circumstances

Serious medical or personal difficulties may have had an impact on an applicant's academic performance. If this is the case, the applicant should submit a separate letter to explain their particular extenuating circumstance(s). If appropriate, applicants may include supporting documentation such as a medical

- extracurricular activities, sports, hobbies, and other significant interests.

**Note:** It is useful to the Admissions Committee if you indicate the number of hours w

8.8.2.8.8.1.1 Why does the Faculty of Law not require the LSAT?

The Faculty of Law is a bilingual learning environment. W

## **8.10.2 Law Student Services**

### **8.10.2.1 Student Affairs Office**

The *Student Affairs Office* (SAO) is located in New Chancellor Day Hall, Room 433. The SAO is home to the Associate Dean (Academic), the Director (Student Life & Learning), two Student Advisors, a Senior Administrative and Student Affairs Coordinator, and two Students Affairs Coordinators. The members of the SAO are here to help students navigate the Law School at every point in their program.

The following SAO services and supports are available to all students at any point in their Law program.

### **8.10.2.2 Student Advising & Support**

Students are encouraged to seek academic advice and support from the SAO throughout their academic career. If you are experiencing acute stress, struggling to maintain productivity, or not sleeping or eating well, dealing with financial problems or any other personal problem,

Further information is available on the [LSA/AÉD website](#).

#### **8.10.4 Student-Led Associations and Initiatives**

- *section 8.10.4.1: Legal Information Clinic at McGill*
- *section 8.10.4.2: Contours*
- *section 8.10.4.3: Graduate Law Student Association*
- *section 8.10.4.4: Healthy Legal Minds*
- *section 8.10.4.5: Innocence McGill*
- *section 8.10.4.6: L.E.X. Program*
- *section 8.10.4.7: McGill Journal of Law and Health*
- *section 8.10.4.8: McGill Journal of Sustainable Development Law*
- *section 8.10.4.9: McGill Law Journal*
- *section 8.10.4.10: Pro Bono Students Canada*
- *section 8.10.4.11: Quid Novi*
- *section 8.10.4.12: Skit Nite*

##### **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



#### **8.10.4.6 L.E.X. Program**

The Faculty's High School Outreach Program has been renamed to L.E.X. (Law – Éducation – Connexion) to better reflect its bilingual nature and priorities. L.E.X. gives law students and Montreal-area high school kids a chance to meet, interact and learn from each other. This initiative stems from our concern about Quebec's alarming high school dropout rates and about the fact that many underprivileged kids, as well as children of immigrants and visible minorities in Montreal, are under-represented in post-secondary and legal education. The L.E.X. Program reflects our view that the privileges enjoyed by the Faculty of Law and its students also bring responsibilities.

#### **8.10.4.7 McGill Journal of Law and Health**

The *McGill Journal of Law and Health* (MJLH)/*Revue de droit et santé de McGill* (RDSM) is a peer-reviewed academic journal featuring literature from renowned academics and practitioners on current issues of law and policy relating to health. Publishing annually since 2007 on topics ranging from medical practice and technology, to intellectual property and medical ethics, the MJLH is a bilingual, student-run venture based at the Faculty of Law of McGill University, and operates within an interdisciplinary and transsystemic framework of legal scholarship.

#### **8.10.4.8 McGill Journal of Sustainable Development Law**

The *McGill Journal of Sustainable Development Law* (MJSDDL), formerly McGill International Journal of Sustainable Development Law and Policy (JSDLP), provides a forum in which the world's leading scholars exchange ideas on the intersection between law, development, the environment, economics, and society. Over the past quarter-century, determining how to enrich our world in a more sustainable fashion has become an imperative, especially given the impact of development on the environment and human rights. Despite this pressing need for new ideas, there are few outlets for informed and focused commentary on sustainability, particularly in Canada. In response to this void, students at the Faculty of Law of McGill University established the MJSDDL, a student-run, peer-reviewed academic journal, in 2004.

#### **8.10.4.9 McGill Law Journal**

The *McGill Law Journal* was founded in 1952 by students at the Faculty of Law of McGill University. Since its establishment, the Journal has promoted the development of legal scholarship by providing content with broad appeal to an audience that includes professors of law, practicing lawyers, and law students. The Journal has consistently pursued this objective for six decades and continues to foster a more profound understanding of the common law and civil law 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.

#### **8.10.4.10 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.

- Details on the **W**

LAWG 220D2

(3)

Property  
Adv

PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

\* Students must take both LAWG 508D1 and 508D2.

#### Principles of Canadian Administrative Law

3 credits from the following courses:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 539	(3)	International Taxation
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
LAWG 523	(3)	Tax Practice Seminar
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 515	(3)	Tax Policy
PUB2 551	(3)	Immigration and Refugee Law

#### **Elective Courses (47 credits)**

Students must take 47 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:

- a) writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- b) writing a term essay under independent supervision, for credit, within the Faculty of Law;
- c) writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

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Law students should consult the Faculty of Arts and Faculty of Science and the Desautels Faculty of Management sections of the Undergraduate Programs, Courses and University Regulations publication available at <http://www.mcgill.ca/study/> to determine the requirements for individual minor concentrations and minors.

### **B.C.L. and LL.B with Minor**

In addition to the 105 credits needed for the B.C.L. and LL.B. program, students complete 18 further credits toward a minor program. Since Science minors are typically 24 credits and Management minors and Arts minor concentrations are typically 18 credits, Law students will be allowed to count 6 credits of a 24-credit Science minor toward their Law degree as non-Law credits.

### **8.12.3 B.C.L. and LL.B. with Major Law with Major Concentration Commercial Negotiation and Dispute Resolution (123 credits)**

The B.C.L. and LL.B. 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 "Commercial Negotiation and Dispute Resolution" and is inspired by an interdisciplinary approach.

Law and non-law courses are combined with the practical experience acquired during an internship. The required writing of an independent essay allows students to integrate the various academic and clinical strands of the major program, and, more broadly, of legal learning.

The Major concentration is a 36-credit program. Students are permitted to include within their 105 credits for the B.C.L. and LL.B. 18 credits toward their Major concentration. The remaining 18 credits needed for the Major concentration are added on top of the 105 credits for the Law degrees for a total of 123 credits.

#### **Required Courses (6 credits)**

WRIT 300D1	(3)	Major Internship
WRIT 300D2	(3)	Major Internship

#### **Complementary Courses (30 credits)**

##### **Essay Course (3 credits)**

3 credits from:

WRIT 491	(3)	Term Essay 1
WRIT 492	(3)	Term Essay 2
WRIT 493	(3)	Term Essay 3
WRIT 494	(3)	Term Essay 4
WRIT 495	(3)	Term Essay 5
WRIT 496	(3)	Term Essay 6

The essay must be written on a subject related to Commercial Negotiation and Dispute Resolution. The essay is to be written in the fourth year of the program in order to allow the student to integrate the various academic and clinical strands of the program. The topic must be approved by the Associate Dean (Academic).

#### **Law and Non-Law Courses (27 credits)**

27 credits from the following lists of law and non-law courses of which at least 6 credits must be non-law courses.

##### **Law Courses**

15-21 credits of law courses selected from:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 503	(3)	Business Organizations
BUS2 504	(3)	Securities Regulation
BUS2 505	(3)	Corporate Finance
CMPL 508	(2)	Research Seminar 1
CMPL 509	(2)	Research Seminar 2
CMPL 515	(3)	International Carriage of Goods by Sea

CMPL 521	(3)	Trade Regulation
CMPL 524	(3)	Entertainment Law
CMPL 533	(3)	Resolution of International Disputes
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

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INDR 459	(3)	Comparative Employment Relations
INDR 492	(3)	Globalization and Labour Policy
INDR 496	(3)	Collective Bargaining
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 & 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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#### **8.12.4 B.C.L. and LL.B. with Major Concentration Law with Major International Human Rights and Development (123 credits)**

The B.C.L. and LL.B. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in International Human Rights and Development is articulated around a synthetic skill-set driven by the transversal theme "International Human Rights and Development" and inspired by an interdisciplinary approach.

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WRIT 495	(3)	Term Essay 5
WRIT 496	(3)	Term Essay 6

The essay must be written on a subject related to International Human Rights and Development.



ANTH 342	(3)	Gender, Inequality and the State
ANTH 418	(3)	Environment 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 Cour**

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 Bachelor of Laws (LL.B.) Honours Law (120 credits)

#### Revision, May 2019. Start of revision.

The B.C.L and LL.B. 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 LL.B. program. Conditional upon submission and approval of an Honours Thesis, students will be granted a B.C.L. and LL.B. with Honours.

#### Required Courses (61 credits)

##### Required Honours Thesis Courses

WRIT 450	(3)	Honours Thesis 1
WRIT 451	(6)	Honours Thesis 2
WRIT 452	(6)	Honours Thesis 3

#### First Year

The following 32 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 110D1	(2)	Integration Workshop
LAWG 110D2	(2)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations

#### Second Year

The following 14 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
PRAC 200	(1)	Advocacy
PROC 124	(4)	Judicial Institutions and Civil Procedure

#### Complementary Courses (12 credits)

##### Civil Law Immersion Courses

3 credits from the following list of civil law courses:

BUS2 561	(3)	Insurance
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BUS2 504	(3)	Securities Regulation
CMPL 539	(3)	International Taxation
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
LAWG 523	(3)	Tax Practice Seminar
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 400gulationgulation	(3)	The Administrative Process

MGCR 660 (6) International Study Trip

### Complementary Courses - Management (27 credits)

Students complete 27 complementary credits toward the M.B.A. degree selected as follows:

15 credits toward one of the five concentrations of the M.B.A. degree: Finance, Global Leadership, Marketing, Technology and Innovation Management, or General Management.

12 additional credits at the 500 level or above offered by the Desautels Faculty of Management to complete the 27 credits of complementary courses.

Note: Students may have to follow one or all components of the M.B.A. Base Camp (Statistics, Math for Finance, Financial Accounting) prior to commencement of the M.B.A. depending on their academic background.

### Required Courses - Law (46 credits)

First Year

The following 32 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 110D1	(2)	Integration Workshop
LAWG 110D2	(2)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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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
		Real Estate T

CMPL 580

- (3) Environment and the Law
- (3) Labour Law

MGCR 629	(1)	Global Leadership
MGCR 650	(2)	Business Tools
MGCR 651	(4)	Managing Resources



BUS2 561	(3)	Insurance
LEEL 570	(3)	Employment Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

### Complementary Courses - Law, Common Law (3 credits)

Students complete 3 credits of common law courses. The following courses count for their full credit weight as common law:

PRV3 534	(3)	Remedies
PRV4 451	(3)	Real Estate Transactions
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts
PRV5 582	(2)	Advanced Torts

### Complementary Course - Law, Civil & Common Law

The following trans-systemic courses count half their credit weight toward the civil law requirement of 3 credits and half their credit weight toward the common law requirement of 3 credits:

CMPL 522	(3)	Medical Liability
LAWG 200	(3)	Commercial Law
LAWG 273	(3)	Family Law
LAWG 300	(3)	Family Property Law
LAWG 316	(3)	Private International Law
LAWG 400	(4)	Secured Transactions
LAWG 415	(3)	Evidence (Civil Matters)
LEEL 570	(3)	Employment Law
PRV5 483	(3)	Consumer Law

### Complementary Courses - Law, Social Diversity and Human Rights (3 credits)

Students must take at least 3 credits from the following courses related to social diversity and human rights:

CMPL 500	(3)	Aboriginal Peoples and the Law
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 575	(3)	Discrimination and the Law
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law

PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms
WRIT 020	(3)	The McGill International Human Rights Internship
WRIT 021	(3)	Independent Human Rights Internship

**Complementary - Law, Principles of Canadian Administrative Law**

Students must take at least one course from the following:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control Of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 403	(2)	Municipal Law
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law
WRIT 433D1	(3)	Legal Clinic 1
WRIT 433D2	(3)	Legal Clinic 1
WRIT 434	(3)	Legal Clinic 2
WRIT 435	(3)	Legal Clinic 3
WRIT 440	(6)	Student Clerkship A
WRIT 440D1	(3)	Student Clerkship A
WRIT 440D2	(3)	Student Clerkship A
WRIT 441	(3)	Student Clerkship B

**Complementary Courses - Law, Other Courses (22 credits)**

Students select the remaining 22 credits from among Faculty of Law offerings.

**8.12.8 Master of Social Work and Bachelor of Civil Law/Bachelor of Laws (Joint M.S.W. & B.C.L./LL.B.) 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 Bachelor of Laws (LL.B.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and LL.B. degrees for a total of 132 credits.

**Required Courses - Social Work (30 credits)**

SWRK 643	(3)	Research Methods 2
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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 6 graduate-level credits may be taken outside the School of Social Work with the approval of the Academic Adviser.

### Required Courses - Law (46 credits)

First Year

The following 32 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 110D1	(2)	Integration Workshop
LAWG 110D2	(2)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116D1	(2)	Foundations
PUB3 116D2	(2)	Foundations

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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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
		Real Estate T

CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

### Elective Courses (29 credits)

Students must take 29 other elective courses offered within the Faculty or approved as credit equivalencies in order to complete the 132-credit degree requirement.

### Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- 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.

## 8.13 Undergraduate Selection of Course Concentrations (Law Programs)

Several courses of instruction may be grouped because they treat a common subject matter or theme. The following unofficial groupings of courses regularly offered in the Faculty are intended to assist students desiring to specialize in selecting elective courses. They do not represent any academic policy decision by the Faculty as to the appropriate characterization of individual offerings. Moreover, some courses appear in more than one grouping. In all cases, reference should be made to the course description.

### 1. Basic Private Law

Contractual Obligations (LAWG 100D1 / LAWG 100D2)

Extra-Contractual Obligations/Torts (LAWG 101D1 / LAWG 101D2)

### 2. Advanced Private Law

#### *Civil Law*

Advanced Civil Law Obligations (PROC 200)

Advanced Civil Law Property (LAWG 506)

Insurance (BUS2 561)

Law of Persons (PRV2 270)

Lease, Enterprise, Suretyship (PROC 549)

#### *Common Law*

Advanced Common Law Obligations (PRV3 200)

Advanced Torts (PRV5 582)

Equity and Trusts (PRV4 549)

Real Estate Transactions (PRV4 451)

Remedies (PRV3 534)

## **2. Advanced Private Law**

Restitution (PRV4 500)

### ***Transsystemic Private Law***

Business Associations (BUS2 365)

Commercial Law (LAWG 200)

Consumer Law (PRV5 483)

Death and Property (LAWG 504)

Employment Law (LEEL 570)

Evidence (Civil Matters) (LAWG 415)

Family Law (LAWG 273)

Family Property Law (LAWG 300)

Medical Liability (CMPL 522)

Private International Law (LAWG 316)

Property (LAWG 220D1 / LAWG 220D2)

Secured Transactions (LAWG 400)

## **3. Legal Theory, Legal Traditions and Legal History**

Aboriginal Peoples and the Law (CMPL 500)

Advanced Jurisprudence (CMPL 505)

Canadian Legal History (CMPL 547)

Feminist Legal Theory (CMPL 504)

Foundations (PUB3 116D1 / PUB3 116D2)

Jurisprudence (CMPL 501)

Legal Theory (CMPL 506)

Linguistic and Literary Approaches to Law (CMPL 507)

Roman Law (CMPL 510)

Talmudic Law (CMPL 513)

Theories of Justice (CMPL 512)

## **4. Human Rights and Cultural Diversity**

Aboriginal Peoples and the Law (CMPL 500)

Canadian Charter of Rights and Freedoms (PUB3 515)

Civil Liberties (CMPL 573)

Discrimination and the Law (CMPL 575)

Inter-American Human Rights (LAWG 503)

International Humanitarian Law (CMPL 565)

International Law of Human Rights (CMPL 571)

The McGill International Human Rights Internship (WRIT 020)

Social Diversity and Law (CMPL 511)

## **5. Social Law**

Immigration and Refugee Law (PUB2 551)

Labour Law (LEEL 369)

Land Use Planning (PRV4 545)

Law and Poverty (LEEL 582)

**5. Social Law**

Law and Psychiatry (PUB2 500)

**6. Law of the State**

The Administrative Process (PUB2 400)

Comparative Federalism (PUB2 503)

Constitutional Law (PUB2 101D1 / PUB2 101D2)

Constitutional Law of the United States (PUB2 102)

Judicial Review of Administrative Action (PUB2 401)

Municipal Law (PUB2 403)

Policies, Politics and Legislative Process (CMPL 518)

Statutory Interpretation (PUB2 505)

**7. Regulation, Technology and Society**

Communications Law (CMPL 577)

Comparative Medical Law (CMPL 551)

Computers and the Law (CMPL 578)

Copyright and Trademark Theory (BUS2 500)

Entertainment Law (CMPL 524)

Environment and the Law (CMPL 580)

Government Control of Business (CMPL 574)

Intellectual & Industrial Property (BUS2 502)

Medical Liability (CMPL 522)

Patent Theory and Policy (BUS2 501)

Science Technology and Law (CMPL 576)

**8. Corporate Law and Taxation**

Banking Law (BUS2 531)

Bankruptcy and Insolvency (BUS1 532)

Business Associations (BUS2 365)

Business Organizations (BUS2 503)

Corporate Finance (BUS2 505)

Corporate Taxation (PUB2 517)

Estate Planning (BUS1 414)

International Taxation (CMPL 539)

Securities Regulation (BUS2 504)

Taxation (PUB2 313)

Tax Policy (PUB2 515)

**9. International Business Law**

European Union Law 1 (CMPL 536)

European Union Law 2 (CMPL 537)

International Carriage of Goods by Sea (CMPL 515)

International Development Law (CMPL 516)

International Maritime Conventions (CMPL 553)

### 9. International Business Law

Law and Practice of International Trade (CMPL 543)

Resolution of International Disputes (CMPL 533)

Trade Regulation (CMPL 521)

### 10. Public International Law

International Criminal Law (PUB2 502)

International Environmental Law and Politics (CMPL 546)

International Humanitarian Law (CMPL 565)

International Law of Human Rights (CMPL 571)

The Law of International Organization (PUB2 506)

The McGill International Human Rights Internship (WRIT 020)

Public International Law (PUB2 105)

### 11. Criminal Law

Advanced Criminal Law (PUB2 501)

Criminal Law (PUB2 111)

Criminal Justice (LAWG 102D1 / LAWG 102D2)

Criminal Procedure (PUB2 422)

Evidence (Criminal Matters) (LAWG 426)

International Criminal Law (PUB2 502)

International Law of Human Rights (CMPL 571)

Sentencing in Canadian Law (PUB2 504)

### 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)

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## 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 under

## 9.4.2 Administrative Officers

### Dean

Isabelle Bajeux-Besnainou; Degree(ENS Paris), M.Sc.(Paris VI & Paris IX), Doctorat.(Paris IX)

### Associate Dean, Undergraduate Programs

Patricia Hewlin; B.A.(Binghamton), M.B.A., Ph.D.(NYU)

### Associate Director, BCom Program

Giulia Campofredano

### Associate Director, BCom Student Affairs

Heather McCombie

## 9.4.3 Bachelor of Commerce Program

Internationally acclaimed for its high academic standards and excellence in teaching/research, and widely recognized as Canada's leading international business school, McGill University consistently attracts top students and faculty members from around the world.

The primary objective of the McGill BCom program is to prepare students for an effective professional and managerial career. The BCom program exposes students to cutting edge and innovative business education. This preparation includes developing a capacity for critical thinking, for integrating knowledge across different disciplines, and for utilizing current theory in approaching practical business problems. Students are also expected to work as part of a team and develop the necessary skills to lead others. They will acquire the critical management competencies which will enable them to offer the expertise organizations need to respond to the ever-changing and increasingly complex global marketplace.

The BCom's highly flexible curriculum offers students both breadth and depth. Breadth is achieved through a broad-based core of required courses which provide the necessary quantitative, analytical, and communication skills, while grounding them in applied theory and practice across the major management disciplines. Depth is achieved through various alternate specializations of study designed to meet the needs of a highly diverse student body with a wide range of career interests and priorities.

In the **General Management Major**, students focus their degree in at least two areas. They must choose one concentration in Management as well as a choice of a second concentration in Management or a minor in another faculty. General Management studies is ideal for students looking for a general business education requiring a broad management perspective, for students interested in continuing their education in a related field, such as law or industrial relations, or for students wishing to pursue a management career that spans multiple industries and across various sectors, some of which can include the arts, applied sciences, or public administration.

**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.

Candidates coming from the Quebec CEGEP system apply to a **three-year program**

Email: [bcom.mgmt@mcgill.ca](mailto:bcom.mgmt@mcgill.ca)

Website: [www.mcgill.ca/desautels/programs/bcom](http://www.mcgill.ca/desautels/programs/bcom)

#### 9.4.4.2 About BCom Student Affairs Office

The BCom Student Affairs Office provides ongoing advice and guidance on:

- programs and prerequisites
- degree requirements
- joint honours, honours, majors, concentrations, and minors
- registration
- course changes
- procedures for withdrawal
- examinations
- rereads
- academic standing
- inter-faculty transfers
- exchanges or study abroad
- transfer credits
- scholarships
- graduation

Student advisers 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.

For more information, please refer to the BCom website at [www.mcgill.ca/desautels/programs/bcom](http://www.mcgill.ca/desautels/programs/bcom).

To book an advising appointment, please fill out the online form available at [www.mcgill.ca/desautels/programs/bcom/contact-us/book-advising-appointment](http://www.mcgill.ca/desautels/programs/bcom/contact-us/book-advising-appointment).

#### 9.4.5 Summer Studies

If you want to make up deficiencies in your background or accelerate progress in your degree, you may do so by taking summer courses at McGill or at another institution. Please note that McGill's course offerings are not guaranteed from year to year.

Each summer, from early May to July, some core and elective courses are offered by the Desautels Faculty of Management for full credit. They are available to Management students, and to students from other faculties and universities who have the necessary course prerequisites.

Information on summer courses is available from:

**BCom Student Affairs Office**

Telephone: 514-398-4068

Email: [bcom.mgmt@mcgill.ca](mailto:bcom.mgmt@mcgill.ca)

Website: [www.mcgill.ca/desautels/programs/bcom](http://www.mcgill.ca/desautels/programs/bcom)

OR

**Summer Studies Office**

Telephone: 514-398-5212

Email: [summer.studies@mcgill.ca](mailto:summer.studies@mcgill.ca)

Website: [www.mcgill.ca/summer](http://www.mcgill.ca/summer)

You are permitted to take 6 credits in any one summer period (May to July) due to the intensive nature of the offerings. Should you require additional credits, you must consult with one of the BCom Associate Directors.

If you want to pursue courses at another institution, credit will be granted for such courses only if they fit into your overall program, and if written permission to complete such courses for credit has been obtained in advance from the BCom Student Affairs Office. A course that overlaps with material already completed in your program, or a language course that does not substantially progress beyond corresponding language courses already taken, will not receive credit approval. For more information about transferring credits, see [section 9.4.7: Transfer Credit and Advanced Standing](#).

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#### **9.4.6 International Student Exchange Program**

The Desautels Faculty of Management prides itself on its international focus. To broaden this focus, we offer students the possibility of an exchange to over **50 top business schools** around the world. You will gain incredible life experience in and out of the classroom, as well as return with academic credits towards your degree. This experiential learning will make you face challenges and opportunities that will help you grow personally and professionally. You will build lifelong relationships and discover a new part of the world. Your future career will be enhanced as a result.

At least two-thirds of all departmental program requirements must be completed at McGill and there is a CGPA requirement of 3.0. Once accepted, you must obtain written faculty authorization for transfer credits before leaving to go on exchange. For more information about the International Student Exchange program, please visit [www.mcgill.ca/desautels/programs/bcom/academics/exchange](http://www.mcgill.ca/desautels/programs/bcom/academics/exchange).

More information can also be obtained from the BCom Student Affairs Office at 514-398-4068, [bcom.mgmt@mcgill.ca](mailto:bcom.mgmt@mcgill.ca), or on the [McGill Abroad website](#).

#### **9.4.7 Transfer Credit and Advanced Standing**

Students are 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 have obtained satisfactory results in the Diploma of Collegial Studies, International Baccalaureate, French Baccalaureate, European Baccalaureate, Bologna signatory countries, Adv

If you have transferred with Advanced Standing to the Desautels Faculty of Management from another university, you are required to complete a minimum of 60 credits while registered in the BCom program, including required courses that are deemed necessary, to become eligible for the degree of BCom.

### 9.6.2 Cumulative Grade Point Average (CGPA)

You will be eligible for graduation upon satisfactory completion of the minimum credit requirement for the degree as indicated in your letter of acceptance, subject to the curriculum and CGPA of 2.00 (3.00 for Honours) requirements.

### 9.6.3 Course Requirements

All required and complementary courses used to fulfil program requirements, including the Freshman program, must be completed with a grade of C or better. If you fail to obtain a satisfactory grade in a required course (core, part of a concentration, minor, major, or honours program), you must repeat the course. Course substitution will be allowed only in special cases; you should consult your academic adviser. Normally, you are permitted to repeat a failed course only once (failure is considered to be a grade of less than C or the administrative failures of J and KF). If the failed course is a complementary course required by the program, you may choose to replace it with another complementary course. If you 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. In either case, both grades of D count toward the CGPA.

In addition, if a course is passed with a grade of C or better, and is then repeated in the future, the subsequent course will not be allowed to count for credit, nor be calculated in the CGPA.

### 9.6.4 Academic Advising

If you are entering the Desautels Faculty of Management for the first time, you are required to attend an **Orientation and Advising Session** during the last week of August, at which the staff from the BCom Student Affairs Office provide information on all aspects of the BCom program. If you have had difficulty registering for your courses, and have not contacted the BCom Office to resolve your issues, you will have the opportunity to resolve your problems after this session. For a detailed description of advising and registration procedures, you should refer to [section 9.6.5: Registration](#); the website for newly admitted undergraduate students at [www.mcgill.ca/accepted](http://www.mcgill.ca/accepted); and the BCom website at [www.mcgill.ca/desautels/programs/bcom](http://www.mcgill.ca/desautels/programs/bcom).

It is not advisable to wait until August to resolve registration issues due to limited course enrolment.

Academic advising for all returning students takes place in February and March for the upcoming academic year. “Drop-in” advising is available in the [BCom Student Affairs Office](#):

- from mid-August until the end of the add/drop period in the **Fall term**;
- from the beginning of January until the end of the add/drop period in the **Winter term**.

Appointments to discuss programs of study with student advisers may be made as soon as the add/drop period ends in September and then again in January.

- **Full-time students** must register for courses online using [Minerva](#). Additional information for new students is distributed at the time of admission and is also available on the Faculty website's [Newly admitted students](#) section, and [www.mcgill.ca/student-records](http://www.mcgill.ca/student-records). Information for returning students and part-time students is available in the BCom Office as of March.
- If you want to **change the courses** for which you are registered within the add/drop period, you must do so online using [Minerva](#).
- If you want to **withdraw from a course** after the add/drop deadline, you must do so online using [Minerva](#) by the withdrawal deadline. A grade of “W” will be indicated on the transcript, which does not affect your GPA. Approval to withdraw after the withdrawal deadline will be granted only in exceptional circumstances. A written request for such consideration, accompanied by substantial documentation, must be submitted to the BCom Associate Director. If your circumstances require you to withdraw from your program completely, you should see an adviser in the BCom Student Affairs Office.
- When your record is verified, any **courses taken that violate the degree regulations** will be flagged after the end of the course change period as “not for credit towards the BCom”. As a result, your expected date of graduation may be delayed. If you believe that you have valid reasons to take a course that may not be credited tow

### 9.6.8.1.1 Faculty constraints

#### **Agricultural & Environmental Sciences:**

- The following courses are not approved and **may not be taken** for credit within the BCom program: AEMA 101, AEMA 102, AEMA 310, AGECE 200, AGECE 201, AGECE 242, AGECE 320, AGECE 330, AGECE 450, and BREE 103.

#### **Arts:**

- All courses are approved, subject to [section 9.6.6: Course Overlap](#) and the above notes, with a maximum of 6 credits approved in CEAP, CEEN, CEGE, and CESL (combined), or SWRK (adviser's approval only).

- ECON 208, ECON 209, ECON 217, and ECON 227 **may not be taken** for credit within the BCom program.

#### **Continuing Studies:**

- A maximum of 6 credits are approved from the language courses offered; no credit will be granted for other SCS courses with subject codes beginning with a "C," such as CCTR or CMIS.

#### **Education:**

- A maximum of 6 credits are approved from the following subject codes (combined): EDEA, EDEC, EDEE, EDEM, EDES, EDKP, and EDPT.

- No courses are approved from subject codes EDET, EDFC, EDFE, or EDSL.

#### **Engineering:**

- Most courses in subject codes ARCH, CHEE, CIVE, ECSE, MECH, MIME, URBP with approval of an adviser.

- No courses are approved from subject codes FACC or MPMC.

- The following courses are not approved: CHEE 291, CHEE 360, CHEE 462; CIVE 210, CIVE 432; ECSE 443; MECH 201, MECH 260, MECH 262, MECH 289; MIME 202, MIME 221, MIME 280, MIME 290, MIME 291, MIME 380, MIME 392, MIME 480, MIME 481, MIME 494.

#### **Music:**

- All courses are approved in subject codes MUGT

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 falls between 1.50 and 1.99 and your TGPA is 2.50 or higher.
- If you were previously in Unsatisfactory Standing and you were readmitted to the BCom program, you will be placed in Probationary Standing if your CGPA is lower than 2.00. To remain in the program, you must satisfy the relevant conditions specified in your letter of readmission.

#### **9.6.9.3 Unsatisfactory Readmitted Standing**

If you were previously in Unsatisfactory Standing and you were readmitted to the BCom program, you will have your Standing changed to Unsatisfactory Readmitted Standing. Your course load is specified in your letter of readmission, as are the conditions you must meet to be allowed to continue in your program. You should see an Academic Adviser to discuss your course selection.

#### **9.6.9.4 Unsatisfactory/Interim Unsatisfactory Standing**

If you are in Interim Unsatisfactory Standing, you may continue in your program, but should evaluate your course load and reduce it as appropriate. You must see a student adviser, before the withdrawal deadlines, about your course selection for the Winter term.

If you are in Unsatisfactory Standing, you have failed to meet the minimum standards set by the Faculty.



- A list of required or recommended textbooks and reading materials;
- A grading scheme or description of the methods of ev

### 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 be assessed. It is strongly recommended that you consult with the instructor of the course before requesting a reread of coursework. Requests for rereads must be made within 10 working days of the date of return of the graded materials. Reassessments should normally be completed within 20 working days of the request.

### 9.7.2.2 Rereads of Final Exams

These rereads are administered by the BCom Student Affairs Office. You must apply in writing to the BCom Student Affairs Office by March 31 for courses in the Fall term and by September 30 for courses in the Winter or Summer terms (these deadlines are strictly enforced, and no requests will be accepted past them). You are assessed a fee for such rereads; consult the Student Accounts [website](#) for specific fee amounts. It is strongly recommended, but not required, that you consult with the instructor of the course before requesting a reread of a final exam.

Reassessments and rereads in courses outside the Desautels Faculty of Management are subject to the deadlines, rules, and regulations of the relevant faculty.

## 9.7.3 Awards and Honorary Designations

### 9.7.3.1 Honours and First-Class Honours

Graduating students registered in an honours program may be awarded Honours or First-Class Honours under the following conditions:

- For Honours, the CGPA at graduation must be 3.0 or higher, and a GPA of 3.0 or higher in the specified courses of the program.
- For First-Class Honours, the CGPA at graduation must be 3.5 or higher, and a GPA of 3.5 or higher in the specified courses of the program.

Students in an honours program whose GPA or CGPA is below 3.0, or who did not satisfy certain additional program requirements, must consult their student adviser to determine whether they are eligible to graduate in a program other than honours.

### 9.7.3.2 Distinction

For information on the designation of Distinction awarded at graduation, see [University Regulations and Resources](#) > [Undergraduate](#) > [Graduation](#) > [Graduation Honours](#) > [section 1.9.3.2: Distinction](#).

### 9.7.3.3 Dean's Honour List

For information on the designation of Dean's Honour List awarded at graduation, see [University Regulations and Resources](#) > [Undergraduate](#) > [Graduation](#) > [Graduation Honours](#) > [section 1.9.3.1: Dean's Honour List](#).

## Scholarships, Priz

- Shirin Yeganegi Memorial Scholarship
- Stephen S. Goldbloom Memorial Prize (*please note that this is the only award that requires an application for a graduating student*)

For these, the Undergraduate Scholarships Committee welcomes applications and recommendations, substantiated by curriculum vitae, from individual students, student groups, and clubs. Such information should be forwarded to [scholarship.mgmt@mcgill.ca](mailto:scholarship.mgmt@mcgill.ca). A minimum of 27 graded credits for the year, excluding the Summer term, must have been completed in the year to be eligible. If a student is on exchange for one term, then a minimum of 14 credits must be taken in the term at McGill in order to be eligible for awards.

## 9.8 Overview of BCom Programs Offered by the Desautels Faculty of Management

The Desautels Faculty of Management offers several programs leading to a B.Com. degree, which fall within the following categories:

### Overview of BCom Programs

[section 9.8.3: 120-Credit Program, Freshman Course Distribution](#)

[section 9.8.5: Concentrations \(General Management Major\)](#)

[section 9.8.8: Majors](#)

[section 9.8.9: Honours](#)

[section 9.8.6: Minors for Management Students](#)

[section 9.8.7: Minors for Non-Management Students](#)

The following information outlines the credit structure for each BCom program type:

### BCom Program Credit Structures and Course Distributions

[section 9.8.3: 120-Credit Program, Freshman Course Distribution](#)

[section 9.8.4: Management Core](#)

[section 9.8.1: BCom Program Credit Structure: General Management Program \(Concentrations\)](#)

[section 9.8.2: BCom Program Credit Structure: Major or Honours Programs](#)

### 9.8.1 BCom Program Credit Structure: General Management Program (Concentrations)

<b>2 Concentrations</b>	<b>90 credits</b>	<b>120 credits</b>
Freshman Requirements	0	21
Core	36	36
2 Concentrations	30	30
Non-Mgmt Electives	6	9
Electives	18	24
Total	90	120
<b>1 Concentration &amp; 1 Minor (18* or 24 credits)</b>	<b>90 credits</b>	<b>120 credits</b>
Freshman Requirements	0	21
Core	36	36
1 Concentration	15	15
1 Minor (18* or 24 credits)	18* or 24	18* or 24
Electives	21* or 15	30* or 24
Total	90	120

#### Concentrations

- Accounting
- Business Analytics
- Entrepreneurship



<b>Major in International Management</b>	<b>90 credits</b>	<b>120 credits</b>
Area of Study Component: Minor Concentration	18	18
Language Component	9-12	9-12
Experiential Learning Component *	0-3	0-3
Electives	9-12	18-21
<b>Tedits</b>	<b>90</b>	<b>120</b>

\* Going on exchange grants the credits for the approved courses taken abroad; it does not grant an additional 3 credits.

<b>Major in Managing for Sustainability</b>	<b>90 credits</b>	<b>120 credits</b>
Freshman Requirements	0	21
Core	36	36
Major	39	39
Electives	15	24
Total	90	120

<b>Honours in Economics</b>	<b>90 credits</b>	<b>120 credits</b>
Math Freshman Requirements: MATH 140, MATH 141, & MATH 133	0	10
<b>Freshman Requirements (0)j1 0 0 1 438.98 569.1838 Tm(0)j1 0 0 1 438.98 569.1838 Tm(0)Tj1 0 0 1 70.52 569.361.463Core*</b>		
Core*	27	27
Honours	42	42
Electives	21	21
Total	90	120

\* MGCR 271, MGCR 293, & ECON 295 in core are exempted by the required ECON courses within the Honours.

**Joint Honours in Economics & Finance or J 322.653 34\* 0 8 407.16 0 18.467 1569.48 38v0.8.467 15120.48 Tm(Honours in Economics)T345.2**

- Finance
- Information Systems
- International Management
- Labour-Management Relations and Human Resources
- Managing for Sustainability
- Marketing
- Mathematics for Management Students (Major Concentration)
- Organizational Behaviour
- Statistics (Major Concentration)
- Strategic Management

**Honours**

- Economics
-

**Required Courses (36 credits)**

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 (taken in the second year)
- **Major Program in Economics:**
  - replace MGCR 293 with ECON 230D1/ECON 230D2.
  - replace ECON 295 with ECON 330D1/ECON 330D2 (taken in the second year)

**Also note that:**

- A maximum of 6 credits will be permitted within the BCom program for MGCR 293 and ECON 230D1/ECON 230D2 or ECON 250D1/ECON 250D2.
- A maximum of 6 credits will be permitted within the BCom program for ECON 295 and ECON 330D1/ECON 330D2 or ECON 352D1/ECON 352D2.

**9.8.5 Concentrations (General Management Major)**

In order to complete a concentration, students must achieve a grade of C or better in the courses counting towards the concentration. If a student receives less than a C in a complementary course, they have the option of repeating this course or selecting another complementary course. They may also choose to pursue a different concentration altogether.

In general, students will begin taking courses from the chosen concentration(s) in the U2 year.

Academic mentors are appointed for each Management concentration to assist students in choosing a concentration and provide additional information regarding course selection.

**Second Concentration:**

Students who choose to take a second concentration will be required to complete 15 non-overlapping credits at a satisfactory level with a minimum grade of C in each course.



**Mentors:** Please consult the Bachelor of Commerce website at: [www.mcgill.ca/desautels/programs/bcom/academics/course-information](http://www.mcgill.ca/desautels/programs/bcom/academics/course-information).

**9.8.5.1 Bachelor of Commerce (B.Com.) - Concentration in Accounting (15 credits)**

The Accounting concentration is designed to meet the needs of Management students who want to have a good basic understanding of accounting, but do not intend to become professional accountants or accounting specialists. It is primarily oriented toward users of financial information and emphasizes breadth of knowledge in a coherent selection of courses.

This concentration complements or forms part of the B.Com., General Management program. The individual courses in the concentration also act as service courses for other areas in the Faculty for their majors or concentrations.

**Required Courses (6 credits)**

ACCT 351	(3)	Intermediate Financial Accounting I
ACCT 361	(3)	Management Accounting

### **Complementary Courses (9 credits)**

Selected from the following:

ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 401	(3)	Sustainability and Environmental Accounting
ACCT 434	(3)	Topics in Accounting 1
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 454	(3)	Financial Reporting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
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

6 credits from the following:

INSY 442	(3)	Business Intelligence and Data Analytics
INSY 446	(3)	Data Mining for Business Analytics

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**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 & Competitive Strategy

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 digital economy and Information Technologies. The Digital Innovation Concentration helps students leverage their creativity to become change agents and to hone their technological savvy in an increasingly digital environment.

Career opportunities include technology entrepreneur, digital content manager, web and social media expert, project manager.

**Required Course (3 credits)**

INSY 444	(3)	Online Communities and Open Innovation
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**Complementary Courses (12 credits)**

9-12 credits selected from the following list:

BUSA 465	(3)	Technological Entrepreneurship
INSY 432	(3)	Digital Business Models
INSY 440	(3)	E-Business
INSY 442	(3)	Business Intelligence and Data Analytics
INSY 455	(3)	Technology and Innovation for Sustainability

0-3 credits to be chosen from the following list:

INSY 331	(3)	Managing Information Technology
INSY 430	(3)	IT in Financial Markets
INSY 431	(3)	IT Implementation Management
INSY 437	(3)	Managing Data & Databases
INSY 450	(3)	Information Systems Project Management
MGPO 460	(3)	Managing Innovation

**9.8.5.6 Bachelor of Commerce (B.Com.) - Concentration in Information Systems: IT for Business (15 credits)**

There are two options offered in the Information Systems (IS) Concentration: IT for Business and Digital Innovation.

The IS Concentration - IT for Business option is flexible and represents an ideal complement to the majors and concentrations of other areas, as information technology (IT) has the capacity to improve business and to transform industries. The IT for Business option emphasizes the importance of the interrelationships across technology, management, and strategy.

The objective is to prepare students to be effective leaders, users, and managers of IT in today's economy. Students of the IT for Business option are well positioned to participate in IT-driven changes that continue to affect knowledge work, business processes, organizational design, and the operation of markets and industries. IT offers fascinating and rewarding jobs and a wide variety of career paths. Career paths include jobs in consulting, IT management, business analysis, etc. in various industries, e.g., banking, healthcare, finance, education, government, etc.

**Required Course (3 credits)**

INSY 333 (3) Systems Analysis and Modeling

**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 & 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 activity becoming increasingly internationalized, the program provides useful preparation for careers in a v

FINE 480	(3)	Global Investments
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Corporate Finance
INDR 459	(3)	Comparative Employment Relations
MGPO 383	(3)	International Business Policy
MGPO 435	(3)	The Origins of Capitalism
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 objecti

The program complements traditional management career paths and provides useful preparation for positions in the private sector, consultancies, government, NGOs, and international organizations.

**Required Course (3 credits)**

MGPO 440	(3)	Strategies for Sustainability
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**Complementary Courses (12 credits)**

6-9 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

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

#### **9.8.5.11 Bachelor of Commerce (B.Com.) - Concentration in Operations Management (15 credits)**

Operations Management is concerned with the design, planning, control, coordination, and improvement of business processes, systems, and resources integral to the creation of the firm's products and services. Emphasizing quantitative analysis and cross-functional thinking, the Operations Management concentration provides training on traditional as well as emerging operations strategies, concepts, models, and techniques that are essential to any firm in today's competitive marketplace. Operations management graduates find career opportunities in a variety of industries and fields including consulting, manufacturing, distribution, retail, transportation, health care, and public sector, among others.

#### **Required Courses (6 credits)**

MGSC 373	(3)	Operations Research 1
MGSC 431	(3)	Operations and Supply Chain Analysis

#### **Complementary Courses (9 credits)**

Selected from the following:

MGSC 372	(3)	Advanced Business Statistics
MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management
MGSC 479	(3)	Applied Optimization
MGSC 488	(3)	Sustainability and Operations
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

or approved courses in other areas or faculties.

#### **9.8.5.12 Bachelor of Commerce (B.Com.) - Concentration in Organizational Behaviour (15 credits)**

The Organizational Behaviour concentration provides an opportunity for students to increase their awareness of behavioural issues encountered in job and organizational settings, and to prepare themselves







ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
MGPO 430	(3)	Practicum in Not for Profit Consulting
MGPO 433	(3)	Topics in Social Business and Enterprise
MGPO 435	(3)	The Origins of Capitalism
MGPO 460	(3)	Managing Innovation

## 9.8.6 Minors for Management Students

The minor programs offered in the Faculties of Arts and Science may be taken in conjunction with any BCom program, unless otherwise indicated by the department. It is recommended that you meet with an appropriate departmental adviser before pursuing a minor.

It is the student's responsibility to make sure that courses taken towards the minor fulfill the minor requirements when doing a Degree Evaluation on Minerva. Should Degree Evaluation say differently, students must complete a Desautels Faculty of Management [Minor Approval Form](http://www.mcgill.ca/desautels/programs/bcom/academics/course-information/minors) (available at [www.mcgill.ca/desautels/programs/bcom/academics/course-information/minors](http://www.mcgill.ca/desautels/programs/bcom/academics/course-information/minors)) listing the courses being applied to the minor and get it signed by the Minor Adviser in the relevant department, returning the signed form to the BCom Office. Failure to do so may result in the Minor not being granted.

For the **Minor in Economics**, students must complete 18 credits of material that does not overlap with Management course content. A maximum of 6 credits will be permitted within the BCom program for MGCR 293 and ECON 230D1/D2 or ECON 250D1/D2, and a maximum of 6 for ECON 295 and ECON 330D1/D2 or ECON 352D1/D2. Students interested in this minor must obtain approval from the BCom Office.

Students considering a **Minor in Mathematics, Statistics, or Computer Science** must take MATH 133, MATH 140, and MATH 141 and should consult with an adviser in the appropriate department.

Students planning to take the **Minor in Statistics** are advised to substitute MATH 324 for MGCR 271. That course will then count as 3 credits toward the minor. If the decision to take a minor program is made after MGCR 271 has been taken, students who wish to take MATH 324 will receive three additional credits; however, MATH 324 will only count toward the 18-credit minor requirement. Students should check for overlap between statistics courses with the [BCom Student Affairs Office](#).

### 9.8.6.1 Bachelor of Commerce (B.Com.) - Minor Mathematics for Management Students (18 credits)

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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 [www.mcgill.ca/desautels/programs/bcom/academics/minors-non-management-students/management-minors-non-management-students](http://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 F

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.

**9.8.7.4 Bachelor of Commerce (B.Com.) - Minor Management (For Non-Management Students) (18 credits)**

The Minor Management consists of 18 credits of Management coursesa

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 involves decision making at the operational level. Graduates will be able to find employment in consulting, manufacturing, supply chain, distribution, retail operations, healthcare management and environmental management for profit and non-profit corporations. This Minor has been designed to provide students with an understanding of the key concepts in operations management theory and practice.

**Required Courses (6 credits)**

MGCR 472	(3)	Operations Management
MGSC 373	(3)	Operations Research 1

**Complementary Courses (12 credits)**

3 credits

MGCR 271*	(3)	Business Statistics
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9 credits selected from:

MGSC 372	(3)	Advanced Business Statistics
MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management

MGSC 431	(3)	Operations and Supply Chain Analysis
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
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 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.

#### **9.8.7.7 Minor in Technological Entrepreneurship for Engineering Students**

Detailed information on this Minor can be found under [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > Minor Programs > section 6.12.10.19: Bachelor of Engineering \(B.Eng.\) - Minor Technological Entrepreneurship \(18 credits\)](#).

#### **9.8.8 Majors**

Major programs are available in Accounting; Economics; Finance; Information Systems; International Management; Labour-Management Relations and Human Resources; Managing for Sustainability; Marketing; Mathematics; Organizational Behaviour; Statistics; and Strategic Management.

Because of the heavier demands of Major programs, students desiring to pursue a program of this type are advised to declare their intention at the 43.4ir can be found 43.5

ACCT 361	(3)	Management Accounting
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 455	(3)	Development of Accounting Thought

### Complementary Courses (12 credits)

Selected from the following:

ACCT 354	(3)	Financial Statement Analysis
ACCT 401	(3)	Sustainability and Environmental Accounting
ACCT 434	(3)	Topics in Accounting 1
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 454	(3)	Financial Reporting
ACCT 463	(3)	Management Control
ACCT 471	(3)	Non-Profit Accounting
ACCT 475	(3)	Principles of Auditing
ACCT 476	(3)	Internal Auditing
ACCT 477	(3)	External Auditing
ACCT 486	(3)	Business Taxation 2

### 9.8.8.2 Bachelor of Commerce (B.Com.) - Major Economics for Management Students (63 credits)

Mentors: Professors M. El-Attar Vilalta, P. Dickinson, J. Kurien, J. Li, R.T. Naylor, and C. Ragan; Department of Economics, Faculty of Arts.

All B.Com. students take a Core curriculum in addition to the Major.

### Required Courses (45 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

#### Major (18 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory
MGCR 271	(3)	Business Statistics

MGSC 372

(3)

Advanced Business Statistics

**Complementary Cour**



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 492	(3)	International Corporate Finance
FINE 541N1	(1.5)	Applied Investments
FINE 541N2	(1.5)	Applied Investments
FINE 547	(3)	Advanced Finance Seminar

The remainder, if any, from:

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 354	(3)	Financial Statement Analysis
ACCT 385	(3)	Principles of Taxation

#### **9.8.8.4 Bachelor of Commerce (B.Com.) - Major Information Systems (66 credits)**

This 30-credit Major prepares students for the multitude of IT-related career opportunities available in industry. It employs a blend of theoretical concepts, hands-on tools, and actual case studies to train students to identify business problems and opportunities, analyze business processes, and develop and implement information systems to support them. The IS Major covers a variety of topics including strategic planning and investment in information technologies, analysis, design, and deployment of information systems, understanding the opportunities and challenges of web-based businesses, and managing resistance to IT-initiated changes in organizations.

Graduates of this program may expect to find employment as business or systems analysts, consultants, IS quality assurance specialists, and project managers in diverse industries, including banking, insurance, manufacturing, retailing, and consulting.

All B.Com. students take a fro, manuf



Students are required to tak

\* Students should choose Economics (ECON) courses with a regional focus. 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.

**Theme 2: Global Politics and Economy**

This theme focuses on aspects of public policy from the perspective of global transactions and finance. Students may select a minor concentration in the area of international relations and investigate policy on a global scale and its operations in the context of policy, war and peace, the economy, security, trade, human rights, and international organizations. Graduates with this option would be poised to apply their educational background to careers with world government, trade, or economic organizations, NGOs, national governments, or businesses with global interests. The choices of programs include Economics, Geography, Political Science, or a selected group of courses.

- B.A. Minor Concentration in Economics (18 credits)
- B.A. Minor Concentration in International Relations (18 credits)
- B.A. Minor Concentration in Political Economy (18 credits)
- B.A. Minor Concentration in Political Science (18 credits)
- B.A. Minor Concentration in Politics, Law and Society (18 credits)
- B.A. Minor Concentration in Political Theory (18 credits)

OR

**Global Governance, Conflict and Human Rights Concentration**

18 credits of the following courses with at least 6 credits at the 300 level or above:

ANTH 212	(3)	Anthropology of Development
ANTH 214	(3)	Violence, Warfare, Culture
ANTH 222	(3)	Legal Anthropology
CANS 307	(3)	Canada in the World
CANS 412	(3)	Canada and Americas Seminar
COMS 230	(3)	Communication and Democracy
COMS 320	(3)	Media and Empire
HIST 221	(3)	United States since 1865
HIST 302	(3)	International Relations History 1: 1750-1950
HIST 304	(3)	International Relations History 2: Cold War
HIST 339	(3)	Arab-Israeli Conflict
HIST 371	(3)	American Civil Rights 1877-1940
HIST 387	(3)	The First World War
HIST 388	(3)	The Second World War
HIST 438	(3)	Topics in Cold War History
JWST 240	(3)	The Holocaust
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
POLI 212	(3)	Government and Politics - Developed World
POLI 244	(3)	International Politics: State Behaviour
POLI 322	(3)	Political Change in South Asia
POLI 345	(3)	International Organizations
POLI 351	(3)	The Causes of Major Wars
POLI 360	(3)	Security: War and Peace
POLI 450	(3)	Peacebuilding
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence

SOCI 210	(3)	Sociological Perspectives
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 386	(3)	Contemporary Social Movements
SOCI 511	(3)	Movements/Collective Action

**Theme 3: Global Well-Being and Development**

Broad-based, interdisciplinary topics will allo

\*\*\*\* Students wishing to register for IT

**Major (12 credits)**

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 494	(3)	Labour Law
INDR 496	(3)	Collective Bargaining
ORGB 423	(3)	Human Resources Management

**Complementary Cour**

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 (6 credits)**

GEOG 360	(3)	Analyzing Sustainability
MGPO 440	(3)	Strategies for Sustainability

**Complementary Courses (33 credits)**

6-9 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
MSUS 402	(3)	Systems Thinking and Sustainability

3 credits from the following:

ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 401	(3)	Leadership Practicum in Social Sector
ORGB 421	(3)	Managing Organizational Change

0-3 credits from the following:

BUSA 465	(3)	Technological Entrepreneurship
MGPO 365	(3)	Business-Government Relations
MGPO 450	(3)	Ethics in Management
MGPO 460	(3)	Managing Innovation
MGPO 475	(3)	Strategies for Developing Countries
MGPO 567	(3)	Business in Society
MSUS 434	(3)	Topics in Sustainability

3 credits from the following:

ENVR 401	(3)	Environmental Research Research in Sustainability
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MSUS 401	(3)	Sustainability Consulting
MSUS 497	(3)	Internship in Sustainability

12 credits of McGill School of Environment core courses:

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 400	(3)	Environmental Thought

6 credits of environmentally-related courses selected with the approval of the environmental MSE Program Adviser (at least 3 credits must be in natural sciences). A list of Suggested Courses is provided below.

### **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. YThe Sxhae i1 0 0 1 170.59850677247 666(The S1 0 0 1 175.649 4106247 666(The Se1 0 0 1 100.81

Geographical Perspectives: W

## Natural Sciences and Technology

\*\* Note: you may take LSCI 230 or MIMM 211, but not both; you may take BIOL 432 or ENVB 315, but not both; you may take BREE 217 or GEOG 322, but not both; you may take ENVB 529 or GEOG 201, but not both; you may take BIOL 308 or ENVB 305, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ARCH 375	(2)	Landscape
ARCH 377	(3)	Energy, Environment and Buildings
ARCH 378	(3)	Site Usage
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
	(3)	Limnology

EPSC 425	(3)	Sediments to Sequences
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
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 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Principles of Remote Sensing
		Climatic1 0 0 1 165.86Uart3c.uo1.951m((3))Tj1 o Future(3)

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

**9.8.8.9 Bachelor of Commerce (B.Com.) - Major Concentration Mathematics for Management Students (72 credits)**

Mentor: Professor A. Hundemer; Department of Mathematics and Statistics, Faculty of Science.

All BCom students take a Core curriculum in addition to this Major.

Students entering the Major Concentration in Mathematics are normally expected to have completed MATH 133, MATH 140, and MATH 141 or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 39 credits required by the program.

**Required Courses (63 credits)****Management Core (33 credits)**

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
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

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#### **9.8.8.10 Bachelor of Commerce (B.Com.) - Major Organizational Behaviour (66 credits)**

The purpose of this program is to enable students to analyze and influence repeated patterns of action in groups and organizations. Required courses in leadership, human resource management, and team management introduce students to concepts of management at multiple levels of the organization. Additionally, to provide a foundational disciplinary view, students are required to specialize in one of the following social science disciplines: psychology, sociology, or anthropology.

All BComtion.

**1) Psychology**

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology
PSYC 331	(3)	Inter-Group Relations
PSYC 332	(3)	Introduction to Personality
PSYC 333	(3)	Personality and Social Psychology
PSYC 351	(3)	Research Methods in Social Psychology
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 406	(3)	Psychological Tests
PSYC 471	(3)	Human Motivation
PSYC 473	(3)	Social Cognition and the Self
PSYC 474	(3)	Interpersonal Relationships

**2) Sociology**

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 235	(3)	Technology and Society
SOCI 250	(3)	Social Problems
SOCI 307	(3)	Globalization
SOCI 312	(3)	Sociology of Work and Industry
SOCI 321	(3)	Gender and Work
SOCI 330	(3)	Sociological Theory
SOCI 386	(3)	Contemporary Social Movements
SOCI 420	(3)	Organizations
SOCI 424	(3)	Networks and Social Structures

**3) Anthropology**

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 204	(3)	Anthropology of Meaning
ANTH 206	(3)	Environment and Culture
ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
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)

Mentor: Professor R. Steele; Department of Mathematics and Statistics, Faculty of Science

All B.Com. students take a Core curriculum in addition to this Major.

Students entering the Major concentration in Statistics are normally expected to have completed MATH 133, MATH 140, and MATH 141 or their equivalents. Otherwise they will be required to make up any deficiencies in these courses over and above the 39 credits required by the program.

#### Required Courses (60 credits)

##### Management Core (33 credits)

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
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 (27 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance
MGSC 373	(3)	Operations Research 1

##### Complementary Courses (12 credits)

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
MATH 315	(3)	Ordinary Differential Equations
MATH 340	(3)	Discrete Structures 2
MA	(3)	Majors Project

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

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
BUSA 402	(3)	Independent Studies in Social Business and Enterprise
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 \(54 credits\)](#)

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 [www.mcgill.ca/desautels/programs/bcom/academics/course-information/honours](http://www.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, the Honours program involving 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 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: [www.mcgill.ca/desautels/programs/bcom/academics/course-information](http://www.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 469 in addition to ECON 468.

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
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ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

and 12 credits of Economics courses at the 300, 400, or 500 levels, approved by an Honours adviser. Unless explicitly approved by an 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 general Economics courses where an Honours course or a more advanced course in the same field is offered.

#### 9.8.9.2 Bachelor of Commerce (B.Com.) - Honours Investment Management (81 credits)

The B.Com. Honours Investment Management examines financial asset management, either on the buy side working with active portfolio allocation or on the sell side, working for brokerage firms. Rigorous training in accounting, statistics, and finance, including analyzing financial statements, performing company valuations, constructing efficient portfolios with appropriate risk profiles, and managing risk using dynamic trading strategies and derivative instruments.

The B.Com. Honours Investment Management is a limited enrolment program and is by application only for students entering their U2 year. A minimum CGPA of 3.3 is necessary for students to be eligible to apply. Additional information may be found at the BCom Student Affairs Office, or on our website. In order to graduate in Honours in Investment Management, students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.0. A grade of B- or better must be achieved in all courses counted toward this program. Students who do not satisfy all the requirements of the Honours program may still receive a Major in Finance, provided the major requirements have been met.

All B.Com. students take a Core curriculum in addition to the Honours program.

#### Required Courses (78 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

##### Honours Courses (42 credits)

ACCT 354	(3)	Financial Statement Analysis
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 F

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

Advanced Economic mic SteCON 3.8 Tm((3))TTm(ECON 250D1T555 Tm(ECON 2553TtexoE0 0 1 165.864 540.2 Tm

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 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 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)

\*\* For entering the 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.

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
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 r0 0 1 221.949 follo165.864 694.146.05812 credits fwing:221.949 694.12 Tm(Ec38.869)TjT221.949 694.126.25Ec38.869

## Professors

N.J. Adler; B.A., M.B.A., Ph.D.(Calif.-LA) – *Organizational Behaviour*

R. Brenner; B.Sc., M.A., Ph.D.(Hebrew) – *Managerial Economics (Repap Chair in Economics)*

R. David; B.Eng., M.B.A.(McG.), Ph.D.(Cornell) – *Strategy and Organization*

L. Dubé; B.Sc.(Laval), M.B.A.(HEC), M.P.S., Ph.D.(Cornell) – *Marketing (James McGill Professor)*

V.R. Errunza; B.S., B.S.(Tech.)(Bom.), M.Sc., Ph.D.(Calif.) – *Finance (Bank of Montreal Finance Chair)*

S. Faraj; B.S.(Wisc.), M.S.(MIT), DBA – *Strategy and Organization*

S. Li; M.S.(Georgia), Ph.D.(Texas) – *Management Science*

S. Maguire; B.Sc.(Qu.), M.B.A.(Br. Col.) – *Strategy and Organization*

A.C. Masi; A.B.(Colgate), A.M., Ph.D.(Brown) – *Organizational Behaviour*

H. Mintzberg; B.Eng.(McG.), B.A.(Sir G. Wms.), S.M., Ph.D.(MIT) – *Strategy and Organization (John Cleghorn Professor of Management Studies)*

A. Pinsonneault; B.Com.(C' dia), M.Sc.(HEC), Ph.D.(Calif.) – *Information Systems (James McGill Professor and IMASCO Chair in I.S.)*

S. Ray; B.E.(Jad.), M.E.(Asian IT), Ph.D.(Wat.) – *Operations Management*

V. Verter; B.A., M.S.(Bogaziçi), Ph.D.(Bilkent) – *Operations Management (Director CREATE Program and James McGill Professor)*

## Associate Professors

A. Animesh; B.Com.(Delhi), M.I.S.(Carn. Mell), Ph.D.(Md.) – *Decision and Information Systems*

L. Barras; B.Com., M.Sc, Ph.D.(Geneva) – *Finance*

G. Bassellier; B.Com., M.Sc.(HEC), Ph.D.(Br. Col.) – *Information Systems*

S. Betermier; B.A.(Calif., Davis), M.S., Ph.D.(Calif., Berk.) – *Finance*

M. Bouvard; M.Sc.(HEC Paris), Ph.D.(Toulouse) – *Finance*

F. Carrieri; Laurea-Law(Univ. di Bari), M.A., Ph.D.(USC) – *Finance*

L. Cohen; B.A.(Kalamazoo), M.B.A.(Duke), Ph.D.(Calif., Berk.) – *Organizational Behaviour*

B. Croitoru; DIAF(Institut de Statistique, Univ. Pierre et Marie Curie), Ph.D.(Wharton) – *Finance*

A. de Motta; B.A.(Univ. de Valencia), Ph.D.(MIT) – *Finance*

J. Ericsson; M.Sc., Ph.D.(Stockholm Sch. of Econ.) – *Finance*

H. Etemad; B.S.C., M.Eng.(Tehran), M.S., M.B.A., Ph.D.(Calif.) – *International Business*

D. Etzion; B.Sc.(Ben-Gurion), M.Sc.(Tel Aviv), Ph.D.(IESE Univ. of Navarra) – *Strategy and Organization*

S. Fortin; B.A.A.(UQAR), Ph.D.(Wat.) – *Accounting*

R. Goyenko; B.S.(Donetsk-Ukraine), M.A.(C.E.U., Budapest), M.S.(Siena), M.B.A., Ph.D.(Ind.) – *Finance*

M. Gumus; B.S.(Naval Academy), M.S., M.A., Ph.D.(Mich.) – *Industrial Engineering and Oper*

## Associate Professors

J. Ramaprasad; B.S.(L.A. Marshall), Ph.D.(Calif., Irvine) – *Information Systems*

B. Rubineau; B.S., B.S.(MIT), M.S.(Harv.), Ph.D.(MIT) – *Organizational Behaviour*

E. Sarigöllü; B.A., M.B.A.(Bogazi

**CAS Full-time Faculty Lecturers, Assistant Professors (Research) (Professional), & Associate Members**

A. Abrams; B.Com.(McG.), G.D.P.A.(C'dia) – *Accounting*

N. Addy; B.A.(Swarth.), M.P.A.(Princ.), Ph.D.(Stan.) – *Strategy and Organization*

L. Breitner; B.A.(W

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 practice rooms.

Current student enrolment is approximately 550 at the undergraduate level and approximately 300 at the graduate level. Teaching staff includes 60 full-time and over 140 part-time members. Students, faculty, and staff play major roles in Montreal's vibrant cultural scene, presenting approximately 600 concerts and events annually, as well as master classes, lectures, and symposia, all enhanced by active music student societies, a booking office, and engaged administrative and support staff.

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## 10.2 History of the School

Founded as the Conservatorium of Music in 1904, and incorporated as a Faculty in 1920, the School moved to its current location in the impressive and historic Strathcona Music Building (formerly the main section of Royal Victoria College) in 1972. It was renamed the Schulich School of Music in 2005 in honour of benefactor Seymour Schulich. During the 2004–2005 centennial season, the School added the eight-story Elizabeth Wirth Music Building (named in 2015), which houses the Marvin Duchow Music Library, Gertrude Whitley Performance Library, Tanna Schulich Hall, CIRMMT (the Centre for Interdisciplinary Research in Music Media and Technology), the MMR (Multimedia Room), the Wirth Opera Studio, and administrative offices.

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## 10.3 Academic Staff

### 10.3.1 Department of Music Research

#### Chair

Harman, Chris Paul; Ph.D.(Birm.); Associate Professor

#### 10.3.1.1 Composition Area

##### Composition

Bouliane, Denys; B.Mus., M.Mus.(Laval), Graduate(Hochschule für Musik, Hamburg); Associate Professor

Cherney, Brian; B.Mus., M.Mus., Ph.D.(Tor.); Professor

Ferguson, Sean; B.Mus.(Alta.), M.Mus., D.Mus.(McG.); Associate Professor

Harman, Chris Paul; Ph.D.(Birm.); Associate Professor

Hui, Melissa; B.Mus.(Br. Col.), M.F.A.(Calif. Inst. of Arts), D.M.A./M.M.A.(Yale); Associate Professor

Leroux, Philippe; Premier Prix(Conservatoire national supérieur de musique et de danse de Paris); Associate Professor; Director, Digital Composition Studios

Lesage, Jean; Concours, Diplôme d'études supérieures(Conservatoire de Montréal); Associate Professor; Composition Area Chair

Piché, Jean; Adjunct Professor

Rea, John; B.Mus.(Wayne), M.Mus.(Tor.), M.F.A., Ph.D.(Princ.); Professor

#### 10.3.1.2 Music Education Area

##### Music Education

Cossette, Isabelle; Premier Prix(Conservatoire du Québec); M.Mus.(McG.), D.Mus.(Montr.); Associate Professor; Director, CIRMMT

Lorenzino, Lisa; B.Mus.(Tor.), B.Ed.(Sask.), M.A.(McG.), Ph.D.(Alta.); Assistant Professor; Music Education Area Chair

#### 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



### 10.3.1.8 Associate Members

#### Associate Members

Guastavino, Catherine;

## Early Music

Horvey, Amy; B.Mus.(Vic., BC), D.Mus.(McG.); Instructor; Baroque Trumpet

Jennejohn, Matthew; B.A.(Sask.), B.Mus.(Br. Col.); Instructor; Baroque Oboe, Cornetto

Knox, Hank; B.Mus., M.Mus.(McG.); Associate Professor; Continuo, Harpsichord; Early Music and Harpsichord Area Chair (*William Dawson Scholar*)

Labelle, Dominique; L.Mus.(McG.), Artist Dip.(Boston); Assistant Professor

LeBlanc, Suzie; Instructor; Early Music Vocal Coaching

Lussier, Mathieu; Instructor; Baroque Bassoon

MacMillan, Betsy; B.Mus.(W. Ont.), M.Mus.(McG.); Instructor; Viola da Gamba

Maute, Matthias; Instructor; Recorder

Napper, Suzie; Instructor; Baroque Cello

Weman Ericsson, Lena; M.A.(Uppsala), Ph.D.(Lulea); Associate Professor

### 10.3.2.3 Ensembles & Conducting

#### Ensembles

Bourgogne, Guillaume; Premier Prix(CNSMDP); Assistant Professor; Contemporary Music Ensemble

Cazes, Alain; Premier Prix(Conservatoire de Montréal); Associate Professor; Wind Orchestra

Hansen, Patrick; B.Mus.(Simpson), M.Mus.(Missouri); Associate Professor; Opera Director

Hargreaves, Stephen; B.Mus.(Ind.); Assistant Professor; Opera Coaching

Hauser, Alexis; Diplom(Konservatorium der Stadt, Wien); Associate Professor; McGill Symphony Orchestra and Sinfonietta

Kennedy, Donny; B.Mus., M.Mus.(McG.); Instructor; Jazz Combo Coordinator

MacMillan, Betsy; B.Mus.(W. Ont.), M.Mus.(McG.); Instructor; Early Music Ensemble Co-Coordinator

McNabney, Douglas; B.Mus.(Tor.), M.M.(W. Ont.), D.Mus.(Montr.); Associate Professor; Chamber Music Coordinator

Sullivan, Joe; B.A.(Ott.), M.M.(Neatoire de Montr



### **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

White, André; B.A.(C'dia), M.Mus.(McG.); Associate Professor

### **Jazz Saxophone**

Bolduc, Rémi; Associate Professor

Hove, Erik; B.Mus., M.Mus.(McG.); Instructor

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

### **Jazz Trumpet**

Couture, Jocelyn; B.Mus.(UQAM), M.Mus.(McG.); Instructor

Dean, Kevin; B.M.E.(Iowa), M.Mus.(Miami); Professor

### 10.3.2.6 Percussion Area

#### Percussion

Ibrahim, Kristie; B.Mus.(Dal.), M.Mus.(McG.); Instructor

Marandola, Fabrice; Premier Prix(Conservatoire de Paris); M.Mus., Ph.D.(Sorbonne); Associate Professor; Percussion Area Chair

Mativetsky, Shawn; B.Mus., M.Mus.(McG.); Instructor

Reimer, Benjamin; B.Mus., D.Mus.(McG.), M.Mus.(SUNY, Stony Brook); Instructor

### 10.3.2.7 Piano Area

#### Piano

Gavrilova, Julia; M.Mus., D.Mus.(McG.); Instructor

Harboyan, Patil; B.Mus., M.Mus.(McG.), D.M.A.(Stony Brook); Instructor

Hashimoto, Kyoko; B.Mus.(Toho-Gakuen, Tokyo), Professional Studies(Juilliard); Professor; Piano Area Chair

Karlicek, Martin; B.Mus., M.Mus.(HAMU, Prague), D.Mus.(McG.); Instructor

Laimon, Sara; B.Mus.(Br. Col.), M.Mus.(Yale), D.M.A.(SUNY, Stony Brook); Associate Professor

Lemelin, Stéphane; B.Mus., M.Mus.(Peabody), D.M.A.(Yale); Professor

Marchand, Jean; Premier Prix(Conservatoire de Montréal); Instructor

McMahon, Michael; B.Mus.(McG.), Graduate(Hochschule für Musik, Vienna); Associate Professor

Mdivani, Marina; Post-graduate Dip.(Moscow Cons.); Associate Professor

Poletaev, Ilya; B.Mus.(Tor.), M.Mus., M.A., D.M.A.(Yale); Associate Professor

Zuk, Luba; L.Mus.(McG.), Graduate, Conservatoire de musique du Québec; Ph.D.(Ukrainian Free University, Munich); Associate Professor

### 10.3.2.8 String Area

#### Violin

Cho, Jinjoo; B.M., M.M., P.S.(Cleve. Inst. of Music); Assistant Professor

Malette, Marcelle; Premier Prix(Conservatoire du Québec), Artist Dip.(Ind.); Instructor

Melançon, Violaine; Premier Prix(CMQQ/Curtis Inst.); Associate Professor

Read, Alexander; B.Mus., Gr.Dip.(McG.), M.Mus.(Yale); Instructor

Roberts, Richard; B.Mus.(Ind.); Concertmaster, Montreal Symphony Orchestra; Assistant Professor

Strauss, Axel; Dipl.(Musikhochschule Rostock), Prof. Studies Cert.(Juilliard); Associate Professor; String Area Chair

Wan, Andrew; Concertmaster, Montreal Symphony Orchestra; Assistant Professor

#### Viola

Fournelle-Blaine, Victor; A.Dip.(McG.); Instructor

Lambert, Frédéric; B.Mus., M.Mus., D.Mus.(McG.); Instructor

Roy, André; B.Mus.(Curtis); Associate Professor

#### Cello

Dolin, Elizabeth; B.Mus.(Tor.), Artist Dip.(Ind.); Assistant Professor

Dyachkov, Yegor; Instructor

Haimovitz, Matt; B.A.(Harv.); Associate Professor

Manker, Brian; Principal Cello, Montreal Symphony Orchestra; Assistant Professor

**Double Bass**

Chappell, Eric; B.Mus.(McG.); Montreal Symphony Orchestra; InstrulTsi441 709 0 1 7694.1209.84Feltham, Scott Eric; B.Mus.(McG.); Montreal Symphon

## Clarinet

Aldrich, Simon; B.Mus., L.Mus.(McG.); Assistant Professor

Cope, Todd; B.Mus.(Cinc.); Instructor

Desgagné, Alain; Premier Prix(Conservatoire du Québec), M.Mus.(N'western); Assistant Professor

Dumouchel, Michael; B.Mus.(Eastman); Montreal Symphony Orchestra; Instructor

Normand, Jean-François 267.261 662.68 00.9804 0.9216 0.8431 rg0.9804 0.9216 0.8431 RGETm67.526207.287 m67.5267359807 1569.4867359807 1569.486207.287

## 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.)	<b>Dean</b>
Tracy Roach; B.Mus.(McG.)	<b>Faculty Administrator</b>
Anne-Marie Fook Chong; B.A.(C'dia), Gr. Dip.(McG.)	<b>HR Administrator</b>
Genevieve St-Arnault; Cert.(C'dia)	<b>Assistant to the Dean</b>
Linda Mannix; B.A.(C'dia)	<b>Secretary</b>
Kelly Rice; B.Mus., M.A.(McG.)	<b>Director, University Advancement</b>
Brant Hinkey	<b>University Advancement Officer</b>
Catherine Doyle; B.Com(C'dia)	<b>University Advancement Officer</b>
Elin Soderstrom; B.Mus.(McG.), M.Mus.(Montr.)	<b>University Advancement Officer</b>
Irene Baczynsky	<b>Administrative Coordinator</b>
Henry Tin; B.Eng., M.Eng., M.Sc.(McG.)	<b>Manager, Finance</b>
Parker Sheil; B.Mus.(McGill)	<b>Research Finance Administrator</b>
Elizabeth Burnell	<b>Senior Accounts Administrator</b>

### 10.4.2.2 Associate Deans' Office

#### Associate Deans' Office

Douglas McNabney, D.Mus.(Montr.)	<b>Associate Dean (Academic and Student Affairs)</b>
Lloyd Whitesell; B.A.(Minn.), M.A., Ph.D.(SUNY, Stony Brook)	<b>Associate Dean (Research and Administration)</b>
Diana Toni Dutz; B.Mus.(UWO), Gr. Dip.(C'dia)	<b>Administrative Coordinator to the Associate Deans</b>
Alain Terriault	<b>LAN Manager</b>
Paulo Lopes	<b>Project Manager</b>

### 10.4.2.3 Graduate Studies

#### Graduate Studies

Lena Weman-Eriksson; M.A.(Uppsala), Ph.D.(Lulea)	<b>Associate Dean, Graduate Studies</b>
Hélène Drouin	<b>Senior Administrative and Student Affairs Coordinator</b>
Michel Cayer	<b>Student Affairs Coordinator</b>

### 10.4.2.4 Academic Affairs

#### Academic Affairs

Chris Paul Harman; Ph.D.(Birm.)	<b>Chair, Department of Music Research</b>
Stéphane Lemelin; B.Mus., M.Mus.(Peabody), D.M.A.(Yale)	<b>Chair, Department of Performance</b>
Isabel Zamora; Bachelor of Business Mgt.(ITESO)	<b>Administrative Officer</b>
Ania Loboda; B.Com.(C'dia)	<b>Student Affairs Coordinator, Performance and Music Research</b>
Jennifer Stephenson; B.A.(McG.)	<b>Timetable and Scheduling Coordinator</b>
Christa Emerson; B.A.(Mich.), M.Mus.(Cinc.), M.Mus.(Wisc.), D.Mus.(McG.)	<b>Ensemble Resource Supervisor</b>
David Menzies; D.Mus.(McGill)	<b>Booking Office Supervisor</b>



#### **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**

Cathy Martin; B.Mus.(UQAM), M.L.I.S.(McG.)

**Music Liaison Librarian and Coordinator, Music Library Access Services**

**Senior Reference**

#### 10.4.2.14 Music Technology Research Laboratories

Fax: 514-398-2962

##### Music Technology Research Laboratories

Darryl Cameron

Chief Electronics Technician

#### 10.4.2.15 Computational Acoustic Modeling Laboratory (CAML)

Telephone: 514-398-4535, ext. 094836

##### Computational Acoustic Modeling Laboratory

Gary P. Scavone; B.A., B.S.(Syrac.), M.S., Ph.D.(Stan.)

Director

#### 10.4.2.16 Distributed Digital Music Archives and Libraries Laboratory (DDMAL)

Telephone: 514-398-4535, ext. 0300

##### Distributed Digital Music Archives and Libraries Laboratory

Ichiro Fujinaga; B.Mus., B.Sc.(Alta.), M.A., Ph.D.(McG.)

Director

#### 10.4.2.17 Sound Processing and Control Laboratory (SPCL)

Telephone: 514-398-4535, ext. 00271

##### Sound Processing and Control Laboratory

Philippe Depalle; B.Sc.(Paris XI & ENS Cachan), D.E.A.(Le Mans & ENS Cachan), Ph.D.(Le Mans & IRCAM) Director

#### 10.4.2.18 Input Devices and Music Interaction Laboratory (IDMIL)

Telephone: 514-398-4535, ext. 094916

##### Input Devices and Music Interaction Laboratory

Marcelo M. Wanderley; B.Eng.(UFPR), M.Eng.(UFSC), Ph.D.(Paris VI & IRCAM) Director

#### 10.4.2.19 Music Perception and Cognition Laboratory (MPCL)

Telephone: 514-398-4535, ext. 094812



**Centre for Interdisciplinary Research in Music Media & Technology**

Jacqueline Bednar; B.Mus.(Sur.)	<b>Office Administrator</b>
Yves Méthot; B.Ing.(ÉTS)	<b>Electronics Coordinator</b>
Julien Boissinot	<b>Systems Manager</b>
Jérémie Voix	<b>Associate Director, Scientific and Technological Research</b>
Romain Dumoulin	<b>Project Manager</b>

**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: [www.mcgill.ca/conservatory](http://www.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)	<b>Director</b>
Henry Tin; B.Eng., M.Eng., M.Sc.(McG.)	<b>Associate Director</b>
Nancy Soulsby; B.A., Dip.Ed.(McG.)	<b>Administrative Assistant</b>
Frank Mutya; B.Sc.(Manit.), B.Mus.(Tor.), M.Mus.(McG.)	<b>Examination Coordinator</b>
Elaine Lam; B.Mus.(McG.)	<b>Registration Coordinator</b>

**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 Technology and Music Science and Technology.
- The **Department of Performance** offers Minors in Conducting, Early Music Performance, Jazz Arranging and Composition, and Jazz Performance

The Schulich School of Music of McGill University also offers the opportunity to pursue courses that reflect your multiple interests through collaboration with McGill's other faculties and departments. You may wish to consider partnering your music major studies with subjects from a different music department, or from other faculties that would lead to graduating with a double major or minor. B.Mus. students who are interested in pursuing double majors or double degrees should consult this website: [www.mcgill.ca/music/programs/double](http://www.mcgill.ca/music/programs/double)

Please refer to [section 10.8: Browse Academic Units & Programs](#) for a full list of program offerings.

**10.5.1 Degrees and Diplomas Offered****10.5.1.1 Bachelor of Music (B.Mus.)**

The Bachelor of Music degree (B.Mus.) may be obtained in any one of the following fields:

- Faculty Program
- Faculty Program Music – Jazz Concentration
- Music Composition
- Music Education – available only as a component of the Concurrent B.Mus./B.Ed. program
- Music History
- Music Theory
- Performance
- Early Music Performance
- Jazz Performance



#### **10.5.1.6 M.Mus. Performance (Prerequisite courses)**

Students wishing to prepare for the Master of Music in Performance should include, in their Bachelor of Music program, the courses listed under [section 10.8.2.15: Special Prerequisite Courses for M.Mus. in Performance](#).

#### **10.5.1.7 M.Mus. Sound Recording (Prerequisite courses)**

Students wishing to prepare for the Master of Music in Sound Recording should include, in their Bachelor of Music program, the courses listed under [section 10.8.1.6: Special Prerequisite Courses for M.Mus. in Sound Recording](#).

#### **10.5.1.8 Master of Arts (M.A.)**

The Master of Arts degree (M.A.) is available as a thesis option in Music Education, Music Technology, Musicology (with an option in Gender and Women's Studies), and Theory (with an option in Gender and Women's Studies) and as a non-thesis option in Music Education, Musicology, and Theory.

#### **10.5.1.9 Licentiate in Music (L.Mus.)**

The Licentiate in Music is offered in Performance and is designed for advanced instrumentalists, singers, and jazz performers who wish to concentrate on their practical subject while limiting their theoretical studies to basic areas in Music History, Music Theory, and Musicianship. This program normally requires three years of study. For more information, please see:

- [section 10.8.2.12: Licentiate in Music \(L.Mus.\) - Major Performance Piano \(93 credits\)](#);
- [section 10.8.2.13: Licentiate in Music \(L.Mus.\) - Major Performance \(All Instruments except Piano, Voice and Jazz\) \(93 credits\)](#);
- [section 10.8.2.14: Licentiate in Music \(L.Mus.\) - Major Performance Voice \(105 credits\)](#).

#### **10.5.1.10 Graduate Certificate in Performance Choral Conducting**

The Graduate Certificate in Performance - Choral Conducting is designed for choral conductors wishing to perfect their technical, pedagogical, and musical skills. This flexible program allows conductors to develop their craft while maintaining their professional activities. The program includes group tutorial instruction in conducting, ensemble participation, and complementary courses offering the opportunity to focus on conducting technique, rehearsal pedagogy, or performance practice. Enrolment is limited.

#### **10.5.1.10.1 Graduate Diploma in Performance**

The Graduate Diploma in Performance is a one-year graduate diploma that allows excellent musicians to refine their technique and master repertoire through intensive coaching, practice, and performance projects.

Designed as a polishing diploma, the program prepares musicians for professional careers as soloists, opera singers, collaborative pianists, chamber, jazz and orchestral musicians, or for further graduate studies in performance. Flexible program requirements enable a range of performance options including solo, chamber, recording, orchestral auditions, and creative collaborations.

#### **10.5.1.11 Graduate Artist Diploma**

The Graduate Artist Diploma is the uppermost diploma offered at the Schulich School of Music.

This program is tailored for artist performers wishing to achieve the highest level of artistry in their craft through intensive coaching, practicing, and

valued between \$6,000 and \$15,000, are awarded to our most promising incoming string students. Additional scholarships and financial aid are available both through the Schulich School of Music and McGill University's [Student Aid Office](#).

While taking into account the stipulations of the individual awards, Schulich School of Music scholarships, awards, and prizes are given on the basis of a student's record for the academic session ending in April and are tenable during the next academic year beginning in September. Students must have successfully completed at least 27 credits (excluding summer courses and courses completed under the Satisfactory/Unsatisfactory option) in the academic 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 student. Visit the Schulich School of Music website for more information [www.mcgill.ca/music/student-resources/undergraduates/finance](http://www.mcgill.ca/music/student-resources/undergraduates/finance).

### **10.5.3 Summer Studies**

Summer Studies offers courses starting in May, June, and July.

Students may take a maximum of 18 credits during the Summer session. Those wishing to take more than 6 credits in any one month must obtain the permission of a Program Adviser.

Information concerning course offerings and application forms may be obtained from the McGill [Summer Studies Office website](#), or by calling 514-398-5212.

Music Admissions Office  
Schulich School of Music, McGill University  
555 Sherbrooke Street West  
Montreal QC H3A 1E3  
Telephone: 514-398-4546  
Fax: 514-398-8873  
Email: [undergradadmissions.music@mcgill.ca](mailto:undergradadmissions.music@mcgill.ca)

Full information, including access to the web-based application form, is available at [www.mcgill.ca/music/admissions](http://www.mcgill.ca/music/admissions).

In order to ensure proper consideration, web applications for the Fall Term (September) must be submitted by **January 15**. The School does not normally admit students in the Winter Term (January). Please consult the Music Admissions Office for exceptions. Applications received after these deadlines will be considered if places are still available.

**1.**

### **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**

Applicants are expected to obtain a high school graduation diploma that leads to university admission in the student's home province. Ontario high school students are normally expected to have obtained a minimum of six pre-university (4U, 4M) courses; at least four of the six must have been taken at the 4U level. There are no specific non-Music prerequisite courses required, and the minimum overall average should be 75%. Canadian high school graduates are admitted to a four-year program.

### **10.6.3.4 U.S. High School Applicants**

Applicants are expected to obtain a high school graduation diploma that meets the requirements for university/college admission in the U.S. The minimum overall average required is B+. There are no specific non-Music prerequisite courses, SAT, or Achievement Test results required. Some credit will be granted for Advanced Placement Examinations in appropriate subjects. U.S. high school graduates are admitted to a four-year program.

### **10.6.3.5 International Applicants**

In general, applicants must be eligible for admission to university in their country of origin and have above-average grades. Students who have completed an International Baccalaureate, a French Baccalaureate, or a minimum of three GCE "A" (Advanced) Level examinations are considered for admission into a three-year program. Normally, applicants with five GCE "O" (Ordinary) Level results, plus one year of schooling beyond the Ordinary Level, are admitted to a four-year program.

**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:**

Compulsory placement exams:

- Theory
- Musicianship (Ear Training and Keyboard Proficiency)

Optional placement exam:

- Music History

**For B.Mus. Jazz Performance, B.Mus. Faculty – Jazz concentration, and L.Mus. Jazz Performance students:**

Compulsory placement exams:

- Jazz Ear Training
- Jazz Keyboard Proficiency (jazz piano and jazz guitar students are exempt from this placement exam. They will automatically receive exemption credits for jazz keyboard proficiency and will not be required to take substitute courses)
- Jazz Materials
- Theory (B.Mus. Faculty - Jazz concentration students only)
- Jazz Music History [*Note: this has become a compulsory placement exam.*]

New students will receive the placement examination results on their Online Program Audit (OPA). See [www.mcgill.ca/music/student-resources/undergraduates/academic-resources/program-audit](http://www.mcgill.ca/music/student-resources/undergraduates/academic-resources/program-audit) for details. Exemption note(s) will be added to the transcripts for those who have been exempt from one or more course(s) via placement exams.

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, and who have completed a course equivalent to Western Musical Traditions (MUHL 186) will be reviewed for exemption from this first-year music history course.

All jazz students who wish to be exempt from Jazz History Survey (MUJZ 187) must take a placement exam, even if they have completed a similar course in a college or university.

Students accepted into the Licentiate Diploma, who have completed the degree of Bachelor of Music at a Canadian or American university (or the equivalent elsewhere) within the preceding three (3) years, will not be required to sit the Music Placement Examinations and will be exempted from required Theory, Musicianship, and Music History, Literature, or Performance Practice courses. Should such students wish to avail themselves of the diagnostic service that the Music Placement Examinations provide, they may sit them; without, however, being bound by the recommendation generated from their results. Nevertheless, should great difficulties arise in a specific class because of lack of adequate preparation, the Area Coordinator or the Area Chair, upon the advice of the instructor, reserves the right to counsel the student to undertake studies at a lower level.

## 10.6.6 Readmission

Students in Satisfactory Standing, who have not been registered in the Schulich School of Music for one or two terms, may return to the program in which they were previously registered upon permission of the School. Those who have been out for longer than two consecutive terms may be readmitted upon permission of the School, subject to the student's previous record and current School limitations on enrolment.

Students seeking program readmission must submit a request in writing to the Music *Student Affairs Office*, giving a summary of their activities during their absence. The deadlines to submit these requests are:

- **Winter session** – November 15
- **Summer session** – April 1
- **Fall session** – January 15 (students who must re-audition); or June 1 (no audition)

### 10.6.6.1 Re-auditioning

Students who *have not* completed their required practical examinations will be required to re-audition. Students who *have* completed their required practical examinations and are returning to fulfil academic courses are not required to re-audition. Students who are uncertain of the re-audition regulations are urged to contact the Music Student Affairs Office at [studentaffairs.music@mcgill.ca](mailto:studentaffairs.music@mcgill.ca).

## 10.6.7 Tuition Fees, Practical Instruction Fees, and Lesson Quotas



**Note:** The information in this section was updated in July 2019. A list of current music fees for the 2019-2020 year is also available on the *Student Accounts Website*.

General information on *Tuition* and *Other Fees* can be found in [University Regulations and Resources](#) > *Undergraduate* > *Fees* > [section 1.4.3: Tuition Fees](#). The University reserves the right to make changes without notice in the published scale of fees.

**Individual practical instruction** on a main instrument or voice as indicated in the various degree and diploma programs (see [section 10.5.1: Degrees and Diplomas Offered](#)) is included at the per-credit rate and the practical instruction fee of \$586.72 per term only while the student is full-time, and for a maximum number of years according to the following table:

**Table 1: Practical Instruction Entitlement**

Maximum Years of Practical Instruction at the per-credit rate, 1 hour per week	
B.Mus. (Perf. or Jazz Perf.)	B.Mus. (non-perf. Major*)



- [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 ([www.mcgill.ca/music/programs](http://www.mcgill.ca/music/programs)) so the

**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 Adviser 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.

*Research: Composition; Music Education; Music History; Theory; Faculty Program*. Graduate programs are found in the *Music Graduate and Postdoctoral Studies* section).

**Small Ensembles:** All students registered for full-time or part-time studies in a Performance Department program must audition for, and participate in, a small ensemble (with the exception of voice performance majors who should register for a large and/or small ensemble in the semester for which they are registered full-time or part-time).

More 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.

### **Small Ensembles**

MUEN 581	Introduction to Ensemble Playing for Pianists
MUEN 582	Piano Ensembles
MUEN 584	Studio Accompanying
MUEN 585	Sonata Masterclass
MUEN 591	Brass Consort
MUEN 598	Percussion Ensembles

#### **10.7.4.3 Additional Ensembles**

Additional ensembles chosen by students in non-performance programs to reflect their particular interests may, with departmental approval, be applied as

Reason for Absence	Actions Required
<ul style="list-style-type: none"> <li>Sickness, or emergency medical or dental work</li> </ul> <p> <b>Important Note:</b> 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. Students should not be reluctant to admit to injury; it is entirely acceptable for students to be excused from ensemble rehearsal(s) for health reasons. The School does not want students to perform with pain or injury. If students are experiencing pain while playing, then they are permitted to sit in rehearsal in their assigned place without playing in the rehearsal.</p>	<ol style="list-style-type: none"> <li>Submit online form in advance (if possible) or within three (3) days of returning to school.</li> <li>Submit doctor's certificate, statement from the Student Wellness Hub, or equivalent via email to the office of the <a href="#">Ensemble Resource Supervisor</a>.</li> </ol>
<ul style="list-style-type: none"> <li>An audition for a permanent professional engagement</li> <li>A master class</li> <li>A major competition</li> <li>A professional engagement deemed by the Music School to be very important for a student's developing career</li> </ul>	<ol style="list-style-type: none"> <li>Submit online form as soon as you learn of the opportunity.</li> <li>Submit proof of invitation to the opportunity via email to the office of the <a href="#">Ensemble Resource Supervisor</a>.</li> <li>Submit proof of support by your practical teacher via email to the office of the <a href="#">Ensemble Resource Supervisor</a>.</li> </ol>
<p> <b>Important Note:</b> Permission will be given for no more than three (3) rehearsals.</p>	
<ul style="list-style-type: none"> <li>Family emergency or an especially important family occasion (e.g., weddings, funerals)</li> </ul>	<ol style="list-style-type: none"> <li>Submit online form as soon as you learn of the event.</li> <li>Submit proof of support by your practical teacher via email to the office of the <a href="#">Ensemble Resource Supervisor</a>.</li> <li>Submit a note from a senior family member confirming the event. An email should be sent directly to the office of the <a href="#">Ensemble Resource Supervisor</a>.</li> </ol>

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

## 10.7.7 Auditing

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Failed), unless an extension has been granted (KE). Completion of the course will cause the K to be replaced on official transcripts by the mark earned. A mark of K not cleared by early May makes the student ineligible for in-course scholarships.

In exceptional cases, when research or an assignment cannot be completed for reasons beyond the student's control, students may be given permission by the Associate Dean (Academic and Student Affairs) to leave a course permanently Incomplete (without penalty).



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 [www.mcgill.ca/graduation/applying](http://www.mcgill.ca/graduation/applying).

#### 10.7.13.1 Graduation Honours

For information on the designation of Dean's Honour List awarded at graduation, see [University Regulations and Resources](#) > Undergraduate > Graduation > Graduation Honours > [section 1.9.3.1: Dean's Honour List](#).

For information on the designation of Distinction awarded at graduation, see [University Regulations and Resources](#) > Undergraduate > Graduation > Graduation Honours > [section 1.9.3.2: Distinction](#).

Departments may recommend that students be awarded Outstanding Achievement in recognition of superior performance on an instrument or voice or in an academic discipline.

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## 10.8 Browse Academic Units & Programs

The **Department of Music Research** offers undergraduate degrees in Composition, Music Education, Music History, Theory, and the Faculty Program. The Department also offers Minors in Music History, Composition, Music Education, Music Entrepreneurship, Music Theory, and two Minors in the area of Music Technology.

The **Department of Performance** offers undergraduate degrees in Performance, Early Music Performance, and Jazz Performance; diploma programs in L.Mus.; and Minors in Conducting, Early Music Performance, Jazz Arranging and Composition, and Jazz Performance.

### 10.8.1 Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program

At both the undergraduate and graduate levels, the Department embraces the disciplines of Composition, Music Education, Music History, and Theory; and at the graduate level, Music Technology and Sound Recording. The philosophy of the Department is to encourage integration of the disciplines as much as possible within the learning process in each program of study: the development of basic musicianship, the absorption of the grammar and syntax of musical discourse, and the study of the world of ideas are understood as interconnected.

Major programs offer the student some focus with the flexibility to pursue other areas of interest. The Faculty program is intended to offer an option for individual and creative plans of study. All of the Department's programs give a solid grounding in analytic, synthetic, and writing skills that are useful preparation not only for the music profession but also for professions as diverse as law, journalism, management, and librarianship.

The Music Education program combines an orientation towards a professional career in primary and secondary schools with sensitivity to broader intellectual frameworks against which teachers should understand their roles. This program is offered concurrently with the B.Ed., Music (see [section 10.8.3: B.Mus./ 1 rx3n74.121 Tm\(a](#)

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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
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

**Required Courses (60 credits)**

60 credits selected as follows:

39 credits of Composition

6 credits of Theory

6 credits of Musicianship

3 credits of Music History

6 credits of Performance

**Composition**

MUCO 241	(3)	Tonal Composition 1A
MUCO 242	(3)	Tonal Composition 1B
MUCO 245	(2)	Composition 1A
MUCO 246	(3)	Composition 1B
MUCO 261	(3)	Orchestration 1
MUCO 340D1	(2)	Composition 2
MUCO 340D2	(2)	Composition 2
MUCO 341	(3)	Digital Studio Composition 1
MUCO 342	(3)	Digital Studio Composition 2
MUCO 360	(3)	Orchestration 2
MUCO 440D1	(2)	Composition 3
MUCO 440D2	(2)	Composition 3
MUCO 460	(2)	Orchestration 3
MUCO 541	(3)	Advanced Digital Studio Composition 1
MUCO 575	(3)	Topics in Composition

**Theory**

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
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 Bachelor of Music (B.Mus.) - Major Music History program requires 91 credits (plus 33 credits for the Freshman requirement for out-of-province students).

**Pr**

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
MUPP 381	(3)	Topics in Performance Practice
MUTH 426	(3)	Topics in Early Music Analysis

**Group II**

MUHL 366	(3)	The Era of the Fortepiano
MUHL 372	(3)	Solo Song Outside Germany and Austria
MUHL 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 386	(3)	Chamber Music Literature
MUHL 387	(3)	Opera from Mozart to Puccini
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
MUTH 541	(3)	Topics in Popular Music Analysis

**Required Courses (19 credits)**

9 credits from Theory

4 credits from Musicianship

6 credits from Performance

**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

### **Performance**

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

**Non-Music Electives (9 credits)****Free Electives (24 credits)****10.8.1.3 Bachelor of Music (B.Mus.) - Major Theory (124 credits)**

The Bachelor of Music (B.Mus.) - Major Theory program requires 91 credits (plus 33 credits for the Freshman requirement for out-of-province students).

**Program Prerequisites - Freshman Program (33 credits)**

33 credits selected as described below, in consultation with the Program Adviser:

23 credits of Prerequisite Courses

4 credits of Basic Ensemble Training

6 credits of Non-Music Electives

**Prerequisite Courses**

23 credits, select 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
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 Courses (24 credits)**

24 credits of required courses selected as follows:

9 credits of Theory

6 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**

6 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4 Post-Tonal Musicianship



MUCO 575	(3)	Topics in Composition
MUTH 539	(3)	Topics in Advanced Writing Techniques

**Music History**

6 credits of courses with an MUHL or MUPP prefix.

**Performance**

4 credits selected 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
		McGill Symphon

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
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

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

MUJZ1123	(2)	Fundamentals of 1 7QHprllo
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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 Chair of their intent to do so.

**Special Prerequisite Courses for M.Mus. Sound Recording**

<b>Schulich School of Music – Required Courses</b>		<b>Credits (18)</b>
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
<b>Faculty of Science – Required Course</b>		<b>Credits (3)</b>
PHYS 224	Physics of Music	3
<b>One of the following:</b>		<b>Credits (3)</b>
MUMT 202	Fundamentals of New Media	3
MUMT 203	Introduction to Digital Audio	3
<b>One of the following:</b>		<b>Credits (3)</b>

### Special Prerequisite Courses for M.Mus. Sound Recording

MUMT 302	New Media Production 1	3
MUMT 306	Music and Audio Computing 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)

MUCO 230	(3)	The Art of Composition
MUCO 260	(3)	Instruments of the Orchestra
MUCO 341	(3)	Digital Studio Composition 1

##### Complementary Courses (9 credits)

9 credits selected from

MUHL 385	(3)	Early Twentieth-Century Music
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 539	(3)	Topics in Advanced Writing Techniques

#### 10.8.1.8 Bachelor of Music (B.Mus.) - Minor Music Education (18 credits)

The Minor in Music Education is available to all students, with the exception of students in the concurrent B.Mus.; Major in Music Education/B.Ed.; Major in Music Elementary and Secondary program, subject to the approval of the Schulich School of Music. This Minor will take the place of free electives. The Minor Music Education has limited enrolment. Students must choose complementary courses from one of the three available streams.

##### Required Courses

MUGT 401	(3)	Issues in Music Education
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##### Complementary Courses (15 credits)

15 credits selected from one of the following three streams:

###### Stream I: Studio Teaching

6 credits selected from:

MUGT 205	(3)	Psychology of Music
MUGT 355	(3)	Music in Early Childhood
MUGT 358	(3)	General Music for Adults and Teenagers

9 credits selected from courses with a prefix of MUCT, MUGT, MUIT.

###### Stream II: Elementary Music

6 credits selected from:

MUCT 235	(3)	Vocal Techniques
MUCT 315	(3)	Choral Conducting 1
MUGT 205	(3)	Psychology of Music
MUGT 354	(3)	Music for Children
MUGT 355	(3)	Music in Early Childhood

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

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### **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 creative applications of technology for musical purposes. This program will help prepare students for production-oriented jobs in the creative arts.

This program is open to students from any discipline and has no prerequisites other than familiarity with computers. Applications will only be considered for fall admission. Late applications will not be accepted and no students will be admitted to the Minor in January. Registration will be limited to available lab space. To apply, submit an online application through the Music website: [www.mcgill.ca/music/programs/minor/mat](http://www.mcgill.ca/music/programs/minor/mat).

Students will be selected on the basis of their previous background or experience in music technology and/or sound recording, their computer programming skills, their expressed interest in the program, and their Cumulative Grade Point Average.

Advising for the Minor is available from the Area Chair for the Music Technology Program. Further information on this program is available on the Music Technology website at: [http://www.music.mcgill.ca/musictech/programmes\\_and\\_admissions](http://www.music.mcgill.ca/musictech/programmes_and_admissions).

#### **Required Courses (12 credits)**

12 credits, select all of the following:

MUMT 202	(3)	Fundamentals of New Media
MUMT 250	(3)	Music Perception and Cognition
MUMT 302	(3)	New Media Production 1
PHYS 224	(3)	Physics of Music



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 Performance (28 credits)**

28 credits, select all the courses below:

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 282	(1)	BMus Performance Examination 1
MUIN 333	(0)	Piano Techniques 2
MUIN 369	(0)	Concerto
MUIN 380	(2.5)	BMus Practical Lessons 5
MUIN 381	(2.5)	BMus Practical Lessons 6
MUIN 382	(1)	BMus Performance Examination 2
MUIN 433	(0)	Piano Techniques 3
MUIN 480	(2)	BMus Practical Lessons 7
MUIN 481	(2)	BMus Practical Lessons 8
MUIN 482	(2)	BMus Performance Examination 3
MUPG 350	(2)	Introduction to Piano Pedagogy
MUPG 356	(2)	Piano Repertoire Studies 1
MUPG 357	(2)	Piano Repertoire Studies 2
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 of complementary performance 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
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



3 credits from:

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MUTH 151	(3)	Theory and Analysis 2
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**Required Performance (18 credits)**

18 credits, select all the courses below:

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 282	(1)	BMus Performance Examination 1
MUIN 380	(2.5)	BMus Practical Lessons 5
<del>MUIN 381</del>	<del>(2.5)</del>	<del>BMus Practical Lessons 6</del>
MUIN 382	(1)	BMus Performance Examination 2
MUIN 480	(2)	BMus Practical Lessons 7
MUIN 481	(2)	BMus Practical Lessons 8
MUIN 482	(2)	BMus Performance Examination 3

**Complementary Performance (18 credits)**

Large Ensemble during every term of enrolment as a full-time or part-time student.

18 credits of complementary performance selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595(P)	(2)	Jazz Ensembles

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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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### **Complementary Courses (8 credits)**

#### **Musicianship**

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 381	(2)	Singing Renaissance Notation

#### **Music History, Literature or Performance Practice**

6 credits

(Courses with a MUHL or MUPP prefix)

#### **Music Electives**

Guitars: 9 credits of Music Electives

Harpichord majors must include the following:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

Plus 3 credits of Music Electives

Organ majors must include the following:

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo

Plus 5 credits of Music Electives

#### **Non-Music Electives (3 credits)**

**Free Electives (18 credits)**

(May not include courses with a MUEN prefix)

**Bac**



MUIN 382	(1)	BMus Performance Examination 2
MUIN 480	(2)	BMus Practical Lessons 7
MUIN 481	(2)	BMus Practical Lessons 8
MUIN 482	(2)	BMus Performance Examination 3

### Complementary Performance (21 credits)

Ensemble - during every term of enrolment as a full-time or part-time student

12 credits of complementary performance selected from:

MUEN 496	(2)	Opera Studio
MUEN 554	(2)	Opera Excerpts
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 587	(2)	Cappella McGill
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

9 credits of complementary performance selected from:

MUIN 300	(2)	Voice Coaching 1
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)

### Required Courses (25 credits)

Selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

9 credits of Diction

#### Theory

9 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

Theory and

**Bac**

MUIN 380	(2.5)	BMus Practical Lessons 5
MUIN 381	(2.5)	BMus Practical Lessons 6
MUIN 382	(1)	BMus Performance Examination 2
MUIN 480	(2)	BMus Practical Lessons 7
MUIN 481	(2)	BMus Practical Lessons 8
MUIN 482	(2)	BMus Performance Examination 3

### **Complementary Performance (27 credits)**

Large Ensemble during the first four terms (2 credits x 4 semesters).

27 credits of complementary performance selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 565	(2)	String Quartet Seminar
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 (1 credit per term) from:

Chamber Music Project 1

MUPG 331	(2)	Introduction to Woodwind Pedagogy
MUPG 336	(2)	Introduction to Brass Pedagogy
MUPG 410	(1)	Violin Orchestral Excerpts
MUPG 411	(1)	Viola Orchestral Excerpts
MUPG 412	(1)	Cello Orchestral Excerpts
MUPG 413	(1)	Double Bass Orchestral Excerpts
MUPG 414	(1)	Woodwinds Orchestral Excerpts
MUPG 415	(1)	Brass Orchestral Excerpts
MUPG 416	(1)	Percussion Orchestral Excerpts
MUPG 425	(2)	Extended Techniques - Strings
MUPG 429	(2)	Percussion Seminar
MUPG 431	(2)	Extended Techniques - Woodwinds
MUPG 435	(2)	Extended Techniques - Brass
MUPG 473	(1)	Special Project in Performance
MUPG 474	(2)	Special Project in Performance
MUPG 475	(3)	Special Project in Performance
MUPG 571	(1)	Free Improvisation 1
MUPG 572D1	(.5)	Free Improvisation 2
MUPG 572D2	(.5)	Free Improvisation 2

### Required Courses (16 credits)

16 credits of required courses selected as follows:

9 credits of Theory

4 credits of Musicianship

3 credits of Music History

#### 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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### Complementary Courses (8 credits)

#### Musicianship



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 Performance (18 credits)**

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 282	(1)	BMus Performance Examination 1
MUIN 380	(2.5)	BMus Practical Lessons 5
MUIN 381	(2.5)	BMus Practical Lessons 6
MUIN 382	(1)	BMus Performance Examination 2
MUIN 480	(2)	BMus Practical Lessons 7
MUIN 481	(2)	BMus Practical Lessons 8
MUIN 482	(2)	BMus Performance Examination 3

**Complementary Performance (24 credits)**

Large Ensemble - during every term of enrolment as a full-time or part-time student.

24 credits are selected as follows:

12 credits selected 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

Assigned small ensemble - during every term of enrolment as a full-time or part-time student.

6 credits (1 credit x 6 semesters) of:

MUEN 580	(1)	Early Music Ensemble
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6 credits from:

**Baroque**

MUEN prefix - maximum 4 credits

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

**Music History, Literature, or Performance**

3 credits from:

(3)	Baroque Opera
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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
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

31 credits are selected as follows:

12 credits - Theory

4 credits - Musicianship

6 credits - Music History, Literature, or Performance Practice

9 credits - Diction

**Theory**

12 credits

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5
MUTH 426	(3)	Topics in Early Music Analysis

**Musicianship**

4 credits

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

**Music History, Literature or Perf**

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

**Non-Music Electives\* (3 credits)**

**Free Electives\* (18 credits)**

(May not include courses with a MUEN prefix)

\* 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 205D, 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 above, or by extra university courses.

**10.8.2.7 Bachelor of Music (B.Mus.) - Major Performance Jazz (Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice) (126 credits)**

The Bachelor of Music (B.Mus.) - Major Jazz Performance (Saxophone, Trumpet, Trombone, Drums, Piano, Guitar, Bass, Voice) program requires 91 credits (plus 35 credits for the Freshman requirement for out-of-province students).

126 credits are selected as follows:

35 credits - Prerequisite Requirements (for out-of-province students)

18 credits - Required Performance

18 credits - Complementary Performance

30 credits - Required Courses (Jazz improvisation, Theory and History)

4 credits - Complementary Music

3 credits - Non-Music Electives

18 credits - Free Electives

Special Requirements:

1. Students majoring in Jazz Performance must achieve

MUIN 181

(3)

BMus Practical Lessons 2

(3)

Jazz Materials 1

Selected as follows:

12 credits of Jazz Improvisation

12 credits of Theory

6 credits of History

**Jazz Improvisation**

12 credits

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

**Theory**

12 credits

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**

6 credits

MUHL 286	(3)	Critical Thinking About Music
MUJZ 493	(3)	Jazz Performance Practice

**Complementary Music (4 credits)**

One of the following pairs:

Select MUJZ 440 and MUJZ 441 OR MUJZ 461D1 and MUJZ 461D2.

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

**Non-Music Electives (3 credits)**

**Free Electives (18 credits)**

(May not include courses with a MUEN prefix)

**10.8.2.8 Bachelor of Music (B.Mus.) - Minor Conducting (18 credits)**

\*\* NEW PROGRAM \*\*

The B.Mus. Minor in Conducting contains two streams—orchestral conducting and choral conducting—which offer students an opportunity to develop technical skills in orchestral or choral conducting and rehearsal techniques. Students are admitted by audition and upon successful completion of the conducting entrance exam for the Minor. Enrolment is limited and is not open to UO students.

**Required Course (4 credits)**

MUIN 384	(1)	Conducting Minor Project
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3 credits from the following:

MUPG 580	(1.5)	Rehearsal Techniques for Conductors
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### **Complementary Courses (14 credits)**

14 credits from one of the two streams

#### **Orchestral Stream**

4 credits from the following:

MUPG 315D1	(2)	Introduction to Orchestral Conducting
MUPG 315D2	(2)	Introduction to Orchestral Conducting

#### **Large Ensembles**

4 credits from the following:

MUEN 573	(2)	Baroque Orchestra
MUEN 590	(2)	McGill Wind Orchestra
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

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
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
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
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2

**10.8.2.9 Bachelor of Music (B.Mus.) - Minor Early Music Performance (18 credits)**

The Minor in Early Music Performance offers an opportunity for B.Mus. students to learn the elements of early music performance practice, and to play an early music instrument or to sing early music.

**Required Courses (3 credits)**

MUIN 272	(0)	Performance Minor Examination 1
MUPP 381	(3)	Topics in Performance Practice

**Complementary Courses (15 credits)**

6 credits from the following:

MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra



MUEN 580

(1)

Early Music Ensemble

MUPD 560

(1)

Introduction to Research Methods in Music  
Continuo



MUIN 369	(0)	Concerto
MUIN 433	(0)	Piano Techniques 3
	(4)	L.Mus. Practical Instruction 5

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**

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

**Licentiate in Music (L.Mus.) - Major Performance (All Instruments except Piano, Voice and Jazz) ( 0 1board) 1 m(Hi8L 28d Jazz) ( 10.)Tj.**

**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
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Musicianship T

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 580	(1)	Early Music Ensemble
MUEN 587	(2)	Cappella McGill
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble

9 credits from:

MUEN courses at the 400 or 500 level (maximum 4 credits).

MUIN 300	(2)	Voice Coaching 1
MUIN 301	(2)	Voice Coaching 2
MUPG 296	(1)	Acting for Voice
MUPG 297	(1)	Movement for Voice
MUPG 309	(1)	Advanced Diction
MUPG 353	(2)	Song Repertoire Class
MUPG 380	(2)	Oratorio Class
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
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**Master of Music (M.Mus.); Performance: Collaborative Piano (Thesis)**

MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

**6 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: Piano (Thesis)**

MUPD 560	(1)	Introduction to Research Methods in Music
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**Master of Music (M.Mus.); Performance: Opera and Voice (Thesis)**

MUPD 560	(1)	Introduction to Research Methods in Music
MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

**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
MUJZ 493	(3)	Jazz Performance Practice

### 10.8.3 B.Mus./B.Ed. Bachelor of Music and Bachelor of Education Concurrent Program

The Bachelor of Education in Music (B.Ed. Music) is an integrated four-year 152-credit program of initial teacher training that leads to certification as a teacher in the Province of Quebec. This program is only open to students who have completed a Bachelor of Music (B.Mus.) or its equivalent, and normally students receive significant advanced standing in the program such that the B.Ed. Music program can be completed in two and a half years. Students who do not have an equivalent B.Mus. should complete the concurrent Bachelor of Music (B.Mus.) -Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary if they are interested in obtaining a music education degree. The concurrent program comprised of 170 credits, and combines academic studies in music, professional studies and field experience. Students normally take five years to complete the concurrent program. The two degrees are awarded during the same convocation period.

The components of the 170-credit **Bachelor of Music (Major in Music Education)/Bachelor of Education (Music Elementary and Secondary)** are as follows:

- 58 Education credits
-

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
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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 Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 381	(2)	Singing Renaissance Notation

## **Music History**

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
EDPE 304	(3)	Measurement and Evaluation

## 10.8.4 Management Minor Programs

The Desautels Faculty of Management offers various minors for non-management students that allow undergraduates to develop a variety of managerial skills that will serve them throughout their chosen careers.

Detailed information on the minors listed below can be found on the Desautels Faculty of Management [website](#) and at [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.7: Minors for Non-Management Students](#).

- [section 9.8.7.3: Bachelor of Commerce \(B.Com.\) - Minor Finance \(For Non-Management Students\) \(18 credits\)](#)
- [section 9.8.7.4: Bachelor of Commerce \(B.Com.\) - Minor Management \(For Non-Management Students\) \(18 credits\)](#)
- [section 9.8.7.5: Bachelor of Commerce \(B.Com.\) - Minor Marketing \(For Non-Management Students\) \(18 credits\)](#)
- [section 9.8.7.6: Bachelor of Commerce \(B.Com.\) - Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#)

Students must submit an online application to apply for these minors for non-management students. Contact the Desautels Faculty of Management for more information.

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## 10.9 Practical Subjects

All returning students must submit an [Online Practical Instruction Request Form](#) by May 15 of each year if they wish to register for practical instruction and/or voice coaching lessons.

**Note:** Part-time students will be charged a Music Supplementary 143 Tm(AIStu45hjsF1 8.1 Tf1 0 6)Tj1 0 0 10b3mTnnd/or v

## 10.9.1 Practical Assignment and Lessons

### 10.9.1.1 Registration/Withdrawal

Registration for practical instruction (MUIIN lesson course numbers) is **not available** on Minerva. Students are reminded to submit an [Online Practical Instruction Request Form](#) by the specified deadlines. Practical Instruction will then be added onto students' records.

Students cannot withdra

### **BMus Concentration Final Examination (MUIN 283)**

*Purpose:* To determine that the student is sufficiently accomplished to qualify for the degree of Bachelor of Music. In the event that the student is inadequately prepared, the panel may recommend to the department in which the student is registered that: a) the student be asked to withdraw from the program; or, b) the student be permitted to redo the examination.

*Panel:* A minimum of two staff members (not including the teacher), one of whom must be from the area. The panel is appointed by the Chair of the Department of Performance. At the discretion of the Departmental Chair, the teacher may be included on panels of three or more examiners.

*Distribution of Marks:* The final mark for the examination is the average of the marks submitted by the examination panel.

### **Major Study**





### **10.9.2.5 Elective Study**

Students may elect to pursue further practical instruction in an instrument/voice beyond a program's curricular requirements. Students will first have to pass an audition in a second practical subject before they can apply for elective practical instruction (also known as elective lessons). Elective practical instruction are worth 2 credits for each approved term, and may be applied as music/free electives towards a B.Mus. program.

Additional student fees ( [section 10.6.7: Tuition Fees, Practical Instruction Fees, and Lesson Quotas](#)

### **10.10.2 Examination Marking**

The final mark for any practical examination is the average of all the marks submitted by the individual examiners. In addition, however, at least half of the examiners on the panel must pass the student in order to continue to the next level of examination.

The passing grades for examinations are:

- in L.Mus. programs: **A-**;
- in B.Mus. Major Performance programs: **B-**;
- in Concentration Study programs: **C**

In instances where the average mark is a passing grade but a majority of the panel has failed the student, the final mark will be the letter grade immediately below the required passing grade.

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## **11 Faculty of Science**

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### **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 key questions in the environmental sciences, new materials, and new technologies.

To help us achieve these goals, the Faculty has recruited the best scientific minds of this generation and is committed to ensuring that our undergraduate and graduate students receive

### **11.3 Programs and Teaching in Science**

The Faculty of Science is committed to providing outstanding teaching and research facilities.

- The **Tomlinson Project in University-Level Science Education** conducts groundbreaking university-level science education research, and develops innovative and effective teaching methods for science instructors
- The **Office for Undergraduate Research** and the **Science Undergraduate Research Awards** encourage top students to connect with professors during their degree program and pursue research projects in fields of interest

### 11.4.3 Administrative Officers

#### Dean

R. Bruce Lennox; B.Sc., M.Sc., Ph.D.(Tor.) (*Tomlinson Professor of Chemistry*)

#### Associate Dean (Academic)

Axel Hundemer; M.Sc., Ph.D.(Munich)

#### Director of Advising Services

Nicole Allard; B.A.(W. Ont.), M.A.(Guelph), M.Ed.(McG.)

#### Chief Academic Adviser

Pete Barry; B.Sc.(C'dia), M.Sc.(McG.)

#### Associate Dean (Education)

Tamara Western; B.Sc.(Dal.), Ph.D.(Br.Col.)

#### 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 away, transfer credits, second programs, second degrees, and graduation.

Every student in the B.Sc. degree is assigned an adviser in SOUSA. The adviser's name appears near the top of your Advising Transcript on Minerva. You can contact your adviser directly, or if you do not yet have a SOUSA adviser, at [adviser.science@mcgill.ca](mailto:adviser.science@mcgill.ca).

SOUSA advisers provide assistance with degree planning and are a valuable referral source. They are a good place to start if you are not sure where to address your question. They also 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.

Special requests can be made, in writing, to the Director of Advising Services.

The Committee on Student Standing (CSS) will consider appeals of the Director of Advising Services' decisions. For information about CSS, see the Director of Advising Services' assistant.

## 11.5 Faculty Admission Requirements

For information about admission requirements for the B.Sc., please refer to the *Undergraduate Admissions Guide*, found at [www.mcgill.ca/applying](http://www.mcgill.ca/applying).

For information about interfaculty transfers, refer to [University Regulations and Resources](#) > Undergraduate > Registration > [section 1.3.6: Interfaculty Transfer](#) as well as the relevant information posted on the SOUSA website at [www.mcgill.ca/science/student/general/transfer](http://www.mcgill.ca/science/student/general/transfer).

## 11.6 Faculty Degree Requirements

Each student in the Faculty of Science must be aware of the Faculty regulations as stated in this publication and on the McGill, Science, and SOUSA websites.

While departmental and faculty 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 Science Office for Undergraduate Student Advising (SOUSA) if in any doubt; misunderstanding or misapprehension will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

To be eligible for a B.Sc. degree, you must fulfil all Faculty and program requirements as indicated below:

### Faculty and program requirements

*section 11.6.1: Minimum Credit Requirement*

*section 11.6.2: Residency Requirement*

Refer to *University Regulations and Resources* > *Undergraduate* > *Student Records* > *section 1.5.3: Grading and Grade Point Averages (GPA)*

*section 11.6.3: Time and Credit Limit for the Completion of the Degree*

*section 11.6.4: Program Requirements*

*section 11.6.5: Course Requirements*

## 11.6.1 Minimum Credit Requirement

The minimum credit requirement for your degree is determined at the time of acceptance and is specified in your letter of admission.

Students are normally admitted to a four-year degree requiring the completion of 120 credits.

### 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: [www.mcgill.ca/students/transferecredit](http://www.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: [www.mcgill.ca/students/transferecredit/prospective/cegep](http://www.mcgill.ca/students/transferecredit/prospective/cegep).

### **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 Director of Advising Services 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 Director of Advising Services, 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

#### **11.6.4.4 Special Designations**

The Faculty of Science recognizes Bachelor of Science (B.Sc.) students who have gone beyond a typical B.Sc. experience by awarding certain special designations to their student record and degree at graduation.

##### **11.6.4.4.1 B.Sc. Global Designation**

For details on the B.Sc. Global Designation, students should refer to [www.mcgill.ca/science/progr](http://www.mcgill.ca/science/progr)





endeavour to teach the latest scholarly developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis. The maximum number of students in any seminar is 25, although some are limited to fewer than that.

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. Please consult the departmental listings for course descriptions and availability.

#### **First-Year Seminars**

CHEM 199	FYS: Why Chemistry?
EPSC 199	FYS: Earth & Planetary Exploration
PSYC 199	FYS: Mind-Body Medicine
PSYT 199	FYS: Mental Illness and the Brain

The First-Y

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## 11.10 Overview of Programs Offered

### Programs Offered

*section 11.10.1: Bachelor of Science Program Groups*, which may include Liberal Program – Core Science Components, Major Programs, Joint Major Programs, Honours Programs, and Joint Honours Programs

*section 11.10.2: Minor Programs*

*section 11.10.3: Bachelor of Arts and Science*

*section 11.10.4: Internships, Field Studies, and Global Designation*

*section 11.10.5: Arts Major and Minor Concentrations Open to Science Students*

### 11.10.1 Bachelor of Science Program Groups

Science students admitted after September 2009 are limited to choosing liberal, majors, or honours programs within the Science group to which they were admitted, but may continue to choose freely from all available minor programs. Students pursuing a Liberal Science Program – Core Science Component (CSC) may also select a second CSC from any group. See *section 11.6.4.1: Liberal, Major, and Honours Programs*.

The groups within the B.Sc. are:

- *section 11.10.1.1: Biological, Biomedical & Life Sciences Group*
- *section 11.10.1.2: Bio-Physical-Computational Sciences Group*
- *section 11.10.1.3: Neuroscience Group*
- *section 11.10.1.4: Physical, Earth, Math & Computer Science Group*

A list of specific programs in each group is available via the above links. To change to a major or honours program in another Science group, students must make an Intra-Faculty Transfer application.

See: [www.mcgill.ca/science/student/general/transfer](http://www.mcgill.ca/science/student/general/transfer).

#### 11.10.1.1 Biological, Biomedical & Life Sciences Group

##### 11.10.1.1.1 Liberal Program – Core Science Components

- Anatomy and Cell Biology: *section 11.13.2.4: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Anatomy and Cell Biology (48 credits)*
- Biochemistry: *section 11.13.4.4: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biochemistry (47 credits)*
- Biology: *section 11.13.5.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biology (47 credits)*
- Microbiology and Immunology: *section 11.13.23.4: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Microbiology and Immunology (50 credits)*
- Physiology: *section 11.13.31.4: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physiology (50 credits)*
- Psychology: *section 11.13.33.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Psychology (45 credits)*

#### Major Programs

- Immunology (Interdepartmental): [section 11.13.18.3: Bachelor of Science \(B.Sc.\) - Honours Immunology \(Interdepartmental\) \(75 credits\)](#)
- Microbiology and Immunology: [section 11.13.23.6: Bachelor of Science \(B.Sc.\) - Honours Microbiology and Immunology \(72 credits\)](#)
- Pharmacology – application required, see departmental section for information: [section 11.13.29.6: Bachelor of Science \(B.Sc.\) - Honours Pharmacology \(76 credits\)](#)
- Physiology: [section 11.13.31.8](#)

- Computer Science – Computer Games option: *section 11.13.9.12: Bachelor of Science (B.Sc.) - Major Computer Science - Computer Games (67 credits)*
- Earth System Science: *section 11.13.11.4: Bachelor of Science (B.Sc.) - Major Earth System Science (57 credits)*
- Environment – Atmospheric Environment and Air Quality domain: *section 7.7.5.1.1: Bachelor of Science (B.Sc.) - Major Environment - Atmospheric Environment and Air Quality (60 credits)*
- Environment – Biodiversity and Conservation domain: *section 7.7.4.1.1: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Biodiversity and Conservation (63 credits)*
- Environment – Earth Sciences and Economics domain: *section 7.7.5.2.1: Bachelor of Science (B.Sc.) - Major Environment - Earth Sciences and Economics (66 credits)*
- Environment – Ecological Determinants of Health domain – Cellular: *section 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)*
- Environment – Ecological Determinants of Health domain – Population: *section 7.7.4.2.2: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Ecological Determinants of Health - Population (63 credits)*
- Environment – Environmetrics domain: *section 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)*
- Environment – Food Production and Environment domain: *section 7.7.4.4.1: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Food Production and Environment (63 credits)*
- Environment – Land Surface Processes and Environmental Change domain: *section 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)*
- Environment – Renewable Resource Management domain: *section 7.7.4.6.1: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Renewable Resource Management (63 credits)*
- Environment – Water Environments and Ecosystems domain – Biological: *section 7.7.4.7.1: Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Water Environments & Ecosystems - Biological (60 credits)*
- Environment – Water Environments and Ecosystems domain – Physical: *section 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)*
- Geography: *section 11.13.17.8: Bachelor of Science (B.Sc.) - Major Geography (58 credits)*
- Geology: *section 11.13.10.8: Bachelor of Science (B.Sc.) - Major Geology (66 credits)*
- Mathematics: *section 11.13.22.11: Bachelor of Science (B.Sc.) - Major Mathematics (54 credits)*
- Physics – Biological option: *section 11.13.30.10: Bachelor of Science (B.Sc.) - Major Physics: Biological Physics (82 credits)*
- Physics: *section 11.13.30.9: Bachelor of Science (B.Sc.) - Major Physics (60 credits)*
- Software Engineering: *section 11.13.9.13: Bachelor of Science (B.Sc.) - Major Software Engineering (63 credits)*

#### 11.10.1.4.3 Joint Major Programs

- Atmospheric Science and Physics: *section 11.13.3.7: Bachelor of Science (B.Sc.) - Major Atmospheric Science and Physics (69 credits)*
- Mathematics and Computer Science – see Mathematics and Statistics: *section 11.13.22.12: Bachelor of Science (B.Sc.) - Major Mathematics and Computer Science (72 credits)*
- Physics and Computer Science – see Physics: *section 11.13.30.12: Bachelor of Science (B.Sc.) - Major Physics and Computer Science (66 credits)*
- Physics and Geophysics: *section 11.13.30.11: Bachelor of Science (B.Sc.) - Major Physics and Geophysics (69 credits)*
- Statistics and Computer Science: *section 11.13.22.13: Bachelor of Science (B.Sc.) - Major Statistics and Computer Science (72 credits)*

#### 11.10.1.4.4 Honours Programs

- Applied Mathematics: *section 11.13.22.14: Bachelor of Science (B.Sc.) - Honours Applied Mathematics (63 credits)*
- Atmospheric Science: *section 11.13.3.8: Bachelor of Science (B.Sc.) - Honours Atmospheric Science (74 credits)*
- Chemistry: *section 11.13.7.15: Bachelor of Science (B.Sc.) - Honours Chemistry (71 credits)*
- Chemistry – Bio-organic option: *section 11.13.7.17: Bachelor of Science (B.Sc.) - Honours Chemistry - Bio-organic (75 credits)*
- Chemistry – Atmosphere and Environment option: *section 11.13.7.16: Bachelor of Science (B.Sc.) - Honours Chemistry - Atmosphere and Environment (75 credits)*
- Chemistry – Materials: *section 11.13.7.19: Bachelor of Science (B.Sc.) - Honours Chemistry - Materials (74 credits)*
- Chemistry – Measurement: *section 11.13.7.20: Bachelor of Science (B.Sc.) - Honours Chemistry - Measurement (74 credits)*
- Computer Science: *section 11.13.9.14: Bachelor of Science (B.Sc.) - Honours Computer Science (75 credits)*
- Earth System Science: *section 11.13.11.5: Bachelor of Science (B.Sc.) - Honours Earth System Science (66 credits)*
- Environment: *section 7.7.6.2: Bachelor of Science (B.Sc.) - Honours Environment (72 credits)*
- Geography: *section 11.13.17.9: Bachelor of Science (B.Sc.) - Honours Geography (66 credits)*
- Geology: *section 11.13.10.9: Bachelor of Science (B.Sc.) - Honours Geology (75 credits)*
- Mathematics: *section 11.13.22.15: Bachelor of Science (B.Sc.) - Honours Mathematics (63 credits)*
- Physics: *section 11.13.30.13: Bachelor of Science (B.Sc.) - Honours Physics (78 credits)*
- Planetary Sciences: *section 11.13.10.10: Bachelor of Science (B.Sc.) - Honours Planetary Sciences (78 credits)*

- Probability and Statistics: [section 11.13.22.16: Bachelor of Science \(B.Sc.\) - Honours Probability and Statistics \(63 credits\)](#)
- Software Engineering: [section 11.13.9.16: Bachelor of Science \(B.Sc.\) - Honours Software Engineering \(75 credits\)](#)

#### 11.10.14.5 Joint Honours Programs

- Mathematics and Computer Science: [section 11.13.22.18: Bachelor of Science \(B.Sc.\) - Honours Mathematics and Computer Science \(78 credits\)](#)
- Mathematics and Physics: [section 11.13.30.15: Bachelor of Science \(B.Sc.\) - Honours Mathematics and Physics \(81 credits\)](#)
- Physics and Chemistry: [section 11.13.30.16: Bachelor of Science \(B.Sc.\) - Honours Physics and Chemistry \(80 credits\)](#)
- Physics and Computer Science: [section 11.13.30.17: Bachelor of Science \(B.Sc.\) - Honours Physics and Computer Science \(81 credits\)](#)
- Statistics and Computer Science: [section 11.13.22.17: Bachelor of Science \(B.Sc.\) - Honours Statistics and Computer Science \(79 credits\)](#)

### 11.10.2 Minor Programs

#### Minor Programs

**Atmospheric Science**, [section 11.13.3.4: Bachelor of Science \(B.Sc.\) - Minor Atmospheric Science \(18 credits\)](#)

**Biology**, [section 11.13.5.6: Bachelor of Science \(B.Sc.\) - Minor Biology \(25 credits\)](#)

**Biotechnology**, [section 11.13.6.5: Bachelor of Science \(B.Sc.\) - Minor Biotechnology \(for Science Students\) \(24 credits\)](#)

**Chemical Engineering**, [section 11.13.7.6: Bachelor of Science \(B.Sc.\) - Minor Chemical Engineering \(24 credits\)](#)

**Chemistry**, [section 11.13.7.5: Bachelor of Science \(B.Sc.\) - Minor Chemistry \(20 credits\)](#)

**Cognitive Science**, [section 11.13.8.2: Bachelor of Science \(B.Sc.\) - Minor Cognitive Science \(24 credits\)](#)

**Computer Science**, [section 11.13.9.7: Bachelor of Science \(B.Sc.\) - Minor Computer Science \(24 credits\)](#)

**Earth System Science**, [section 11.13.11.3: Bachelor of Science - Minor Earth System Science \(18 credits\)](#)

**Education for Science Students**, [section 11.13.35.4: Bachelor of Science \(B.Sc.\) - Minor Education for Science Students \(18 credits\)](#)

**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: Bachelor of Science \(B.Sc.\) - Minor Geography \(18 credits\)](#)

**Geographic Information Systems and Remote Sensing**, [section 11.13.17.6: Bachelor of Science \(B.Sc.\) - Minor Geographic Information Systems and Remote Sensing \(18 credits\)](#)

**Geology**, [section 11.13.10.5: Bachelor of Science \(B.Sc.\) - Minor Geology \(18 credits\)](#) (previously named Earth and Planetary Sciences)

**Human Nutrition** – see [Faculty of Agricultural & Environmental Sciences > Undergraduate > Browse Academic Programs > Minor Programs > section 2.6.6.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Human Nutrition \(24 credits\)](#)

**Interdisciplinary Life Sciences**, [section 11.13.19.3: Bachelor of Science \(B.Sc.\) - Minor Interdisciplinary Life Sciences \(24 credits\)](#)

**Kinesiology**, [section 11.13.20.3: Bachelor of Science \(B.Sc.\) - Minor Kinesiology \(24 credits\)](#)

**Management for Non-Management Students**, [section 11.13.21.2: Bachelor of Commerce \(B.Com.\) - Minor Management \(For Non-Management Students\) \(18 credits\)](#)

**Marketing for Non-Management Students**, [section 11.13.21.3: Bachelor of Commerce \(B.Com.\) - Minor Marketing \(For Non-Management Students\) \(18 credits\)](#)

**Mathematics**, [section 11.13.22.7: Bachelor of Science \(B.Sc.\) - Minor Mathematics \(24 credits\)](#)

**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 Programs

**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 \(18 credits\)](#)

**Natural History**, [section 11.13.34.4: Bachelor of Science \(B.Sc.\) - Minor Natural History \(24 credits\)](#)

**Neuroscience**, [section 11.13.26.3: Bachelor of Science \(B.Sc.\) - Minor Neuroscience \(25 credits\)](#)

**Operations Management for Non-Management Students**, [section 11.13.21.4: Bachelor of Commerce \(B.Com.\) - Minor Operations Management \(For Non-Management Students\) \(18 credits\)](#)

**Pharmacology**, [section 11.13.29.4: Bachelor of Science \(B.Sc.\) - Minor Pharmacology \(24 credits\)](#)

**Physics**, [section 11.13.30.6: Bachelor of Science \(B.Sc.\) - Minor Physics \(18 credits\)](#)

**Psychology**, [section 11.13.33.6: Bachelor of Science \(B.Sc.\) - Minor Psychology \(24 credits\)](#)

**Statistics**, [section 11.13.22.8: Bachelor of Science \(B.Sc.\) - Minor Statistics \(24 credits\)](#)



### Notes:

1. The Minor in Chemical Engineering is only available to students in Chemistry.
2. The Minor in Electrical Engineering is only available to students in the Major program in Physics.
3. The Minor in General Science is only available to students in B.Sc. Liberal programs.

## 11.10.3 Bachelor of Arts and Science

Please see [Bachelor of Arts and Science](#) for details.

### Internships, Field Studies,

## Major Concentrations

**International Development Studies**, *section 3.10.23.4.4: 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 3.10.16.9: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)*

**Langue et littérature françaises - Traduction**, *section 3.10.16.10: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)*

**Latin American Studies**, *section 3.10.23.5.5: Bachelor of Arts (B.A.) - Major Concentration Latin American Studies (36 credits)*

**Linguistics**, *section 3.10.27.7: Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)*

**Music** (available to students in B.Sc. Liberal only), *section 3.10.30.7: Bachelor of Arts (B.A.) - Major Concentration Music (36 credits)*

**Philosophy**, *section 3.10.31.5: Bachelor of Arts (B.A.) - Major Concentration Philosophy (36 credits)*

**Political Science**, *section 3.10.32.7: Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)*

**Russian**, *section 3.10.26.25: Bachelor of Arts (B.A.) - Major Concentration Russian (36 credits)*

**Sociology**, *section 3.10.38.6: Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)*

**World Islamic and Middle East Studies**, *section 3.10.39.9: Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)*

**World Religions** – see Religious Studies, *section 3.10.34.12: Bachelor of Arts (B.A.) - Major Concentration World Religions (36 credits)*

## 11.10.5.2 Minor Concentrations

### Minor Concentrations

**African Studies**, *section 3.10.23.3.3: Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)*

**Anthropology**, *section 3.10.4.6: Bachelor of Arts (B.A.) - Minor Concentration Anthropology (18 credits)*

**Arabic Language**, *section 3.10.39.4: Bachelor of Arts (B.A.) - Minor Concentration Arabic Language (18 crédits)*

**Art History**, *section 3.10.5.5: Bachelor of Arts (B.A.) - Minor Concentration Art History (18 crédits)*

**Canadian Studies**, *section 3.10.21.6: Bachelor of Arts (B.A.) - Minor Concentration Canadian Studies (18 credits)*

**Classics**, *section 3.10.19.8: Bachelor of Arts (B.A.) - Minor Concentration Classics (18 credits)*

**Communication Studies** – see Art History and Communication Studies, *section 3.10.5.6: Bachelor of Arts (B.A.) - Minor Concentration Communication Studies (18 credits)*

**East Asian Language and Literature**, *section 3.10.8.4: Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)*

**East Asian Cultural Studies**, *section 3.10.8.5: Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)*

**East Asian Language, Supplementary**, *section 3.10.8.6: Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)*

**Economics**, *section 3.10.9.4: Bachelor of Arts (B.A.) - Minor Concentration Economics (18 credits)*

**English – Cultural Studies**, *section 3.10.12.8: Bachelor of Arts (B.A.) - Minor Concentration English Cultural Studies (18 credits)*



## Minor Concentrations

**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)*

**International Development Studies**, *section 3.10.23.4.3: 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 3.10.16.6: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et littérature françaises - Études et pratiques littéraires (18 crédits)*

**Langue et littérature françaises – Langue française**, *section 3.10.16.5: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)*

**Langue et littérature françaises – Traduction**, *section 3.10.16.7: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et litt. françaises - Traduction (18 crédits)*

**Latin American & Caribbean Studies**, *section 3.10.23.5.4: Bachelor of Arts (B.A.) - Minor Concentration Latin American & Caribbean Studies (18 credits)*

**Linguistics**, *section 3.10.27.6: Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)*

**Music**, *section 3.10.30.6: Bachelor of Arts (B.A.) - Minor Concentration Music (18 credits)*

**Persian Language**, *section 3.10.39.5: Bachelor of Arts (B.A.) - Minor Concentration Persian Language (18 credits)*

**Philosophy**, *section 3.10.31.4: Bachelor of Arts (B.A.) - Minor Concentration Philosophy (18 credits)*

**Political Science**, *section 3.10.32.6: Bachelor of Arts (B.A.) - Minor Concentration Political Science (18 credits)*

**Québec 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 crédits)*

**Religion and Globalization** – see Religious Studies, *section 3.10.34.10: Bachelor of Arts (B.A.) - Minor Concentration Religion and Globalization (18 credits)*

**Russian**, *section 3.10.26.23: Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)*

**Russian Culture**, *section 3.10.26.24: Bachelor of Arts (B.A.) - Minor Concentration Russian Culture (18 credits)*

**Social Studies of Medicine**, *section 3.10.36.4: Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)*

**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 3.10.39.6: Bachelor of Arts (B.A.) - Minor Concentration Turkish Language (18 credits)*

**Urdu Language**, *section 3.10.39.7: 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 Religions** – see Religious Studies, *section 3.10.34.11: Bachelor of Arts (B.A.) - Minor Concentration World Religions (18 credits)*

**World Islamic & Middle East Studies**, *section 3.10.39.8: Bachelor of Arts (B.A.) - Minor Concentration World Islamic & Middle East Studies (18 credits)*

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## Undergraduate Research Opportunities

The **Office for Undergraduate Research in Science (OURS)** coordinates sev

#### **11.11.4 Other Opportunities**

Science internships and field study programs *may* have a research component or focus. Please see their descriptions under [section 11.12: Science Internships and Field Studies](#).

Individual departments and researchers offer many other research opportunities. These may be paid or unpaid, for academic credit or not for credit. Some of these opportunities are formal programs and are described in other sections of this publication ([section 11.11.1: Research Project Cour](#)

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## 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 involve an even higher degree of specialization than majors, include supervised research, and require students to maintain a high academic standard. An honours program provides solid preparation for graduate school. With an honours program, you will have fewer elective credits.

### **What is a B.Sc. Liberal Program?**

This is a fle

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, required, complementary, and elective, is five.
5. Some medical and dental schools have specific freshman course requirements. Check the admission requirements of the school(s) to which you intend to apply.

### List of approved Freshman Science Courses

Select the approved courses according to the instructions above.

ATOC 100	(3)	Extreme-Weather and Climate-Change Physics
BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 120*	(4)	General Chemistry 2
COMP 202	(3)	Foundations of Programming
ESYS 104	(3)	The Earth System
GEOG 205	(3)	Global Change: Past, Present and Future
MATH 133**	(3)	Linear Algebra and Geometry
MATH 134***	(3)	Enriched Linear Algebra and Geometry
PSYC 100	(3)	Introduction to Psychology

\* CHEM 120 is not open to students who have taken CHEM 115.

\*\* Not open to students who are taking or have taken MATH 134.

\*\*\* MATH 134 is an enriched version of MATH 133. MATH 134 may be used instead of MATH 133 to: (1) provide a course prerequisite; and (2) satisfy program requirements.

First calculus course, one of:

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 for more information.

## Professors

Marc D. McKee; B.Sc., M.Sc., Ph.D.(McG.) (

### Associate Members

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 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)

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CHEM 212*	(4)	Introductory Organic Chemistry 1
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

One of the following statistics courses:

MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

### Complementary Courses (16 credits)

Students complete a minimum of 15 or a maximum of 16 complementary course credits selected as follows:

9 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 565	(3)	Diseases-Membrane Trafficking
NEUR 310	(3)	Cellular Neurobiology

6-7 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 565	(3)	Diseases-Membrane Trafficking
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 Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
COMP 204	(3)	Computer Programming for Life Sciences
EXMD 504	(3)	Biology of Cancer
NEUR 310	(3)	Cellular Neurobiology
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease



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 Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 514	(3)	Neurobiology Learning and Memory
BIOL 518	(3)	Advanced Topics in Cell Biology
		Gene Activity in 1 0 0 1 70.52 51dsaselular 3)
		Topics in Molecular Biology
	(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
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
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 413	(3)	Parasitology

MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
NEUR 310	(3)	Cellular Neurobiology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 451	(3)	Advanced Neurophysiology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology

EdxI58(3.864 474.04221.949)(3)1.221.949 631 Cellular Barriers and Health and Disease(3)

EdxI58		Physiology of 631.
EdxI58	(3)	Artificial Internal Organs
EdxI588	(3)	Artificial Cells
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

### 11.13.2.6 Bachelor of Science (B.Sc.) - Honours Anatomy and Cell Biology (73 credits)

Students should 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 obtain 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: ANAT 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/students/courses/plan/transfer/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT212	(3)	Molecular Mechanisms of Cell Function
ANAT214	(3)	Systemic Human Anatomy
ANAT261	(4)	Introduction to Dynamic Histology
ANAT262	(3)	Introductory Molecular and Cell Biology
ANAT432	(9)	Honours Research Project

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(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
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

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 (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
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
ANAT 416	(3)	Development of the Eye
ANAT 417	(3)	Development of the Ear
ANAT 418	(3)	Development of the Heart
ANAT 419	(3)	Development of the Lung
ANAT 420	(3)	Development of the Kidney
ANAT 421	(3)	Development of the Pancreas
ANAT 422	(3)	Development of the Intestine
ANAT 423	(3)	Development of the Liver
ANAT 424	(3)	Development of the Spleen
ANAT 425	(3)	Development of the Thymus
ANAT 426	(3)	Development of the Testis
ANAT 427	(3)	Development of the Ovary
ANAT 428	(3)	Development of the Uterus
ANAT 429	(3)	Development of the Vagina
ANAT 430	(3)	Development of the Cervix
ANAT 431	(3)	Development of the Fallopian Tube
ANAT 432	(3)	Development of the Endometrium
ANAT 433	(3)	Development of the Placenta
ANAT 434	(3)	Development of the Fetus
ANAT 435	(3)	Development of the Neonate
ANAT 436	(3)	Development of the Infant
ANAT 437	(3)	Development of the Child
ANAT 438	(3)	Development of the Adolescent
ANAT 439	(3)	Development of the Adult
ANAT 440	(3)	Development of the Elderly
ANAT 441	(3)	Development of the Geriatric
ANAT 442	(3)	Development of the Senescent
ANAT 443	(3)	Development of the Post-mortem
ANAT 444	(3)	Development of the Mummified
ANAT 445	(3)	Development of the Fossilized
ANAT 446	(3)	Development of the Petrified
ANAT 447	(3)	Development of the Carbonized
ANAT 448	(3)	Development of the Silicified
ANAT 449	(3)	Development of the Phosphatized
ANAT 450	(3)	Development of the Pyritized
ANAT 451	(3)	Development of the Sulfidized
ANAT 452	(3)	Development of the Oxidized
ANAT 453	(3)	Development of the Chlorinated
ANAT 454	(3)	Development of the Fluorinated
ANAT 455	(3)	Development of the Brominated
ANAT 456	(3)	Development of the Iodinated
ANAT 457	(3)	Development of the Nitrogenated
ANAT 458	(3)	Development of the Phosphorated
ANAT 459	(3)	Development of the Sulfurated
ANAT 460	(3)	Development of the Siliconated
ANAT 461	(3)	Development of the Boronated
ANAT 462	(3)	Development of the Magnesiumated
ANAT 463	(3)	Development of the Calciumated
ANAT 464	(3)	Development of the Strontiated
ANAT 465	(3)	Development of the Bariumated
ANAT 466	(3)	Development of the Radiumated
ANAT 467	(3)	Development of the Actiniumated
ANAT 468	(3)	Development of the Thoriumated
ANAT 469	(3)	Development of the Uraniumated
ANAT 470	(3)	Development of the Plutoniumated
ANAT 471	(3)	Development of the Americiumated
ANAT 472	(3)	Development of the Curiumated
ANAT 473	(3)	Development of the Berkeliumated
ANAT 474	(3)	Development of the Californiumated
ANAT 475	(3)	Development of the Einsteiniumated
ANAT 476	(3)	Development of the Fermiumated
ANAT 477	(3)	Development of the Mendeleviumated
ANAT 478	(3)	Development of the Nobeliumated
ANAT 479	(3)	Development of the Lawrenciumated
ANAT 480	(3)	Development of the Rutherfordiumated
ANAT 481	(3)	Development of the Dubniumated
ANAT 482	(3)	Development of the Seaborgiumated
ANAT 483	(3)	Development of the Bohriumated
ANAT 484	(3)	Development of the Hassiumated
ANAT 485	(3)	Development of the Meitneriumated
ANAT 486	(3)	Development of the Darmstadtiumated
ANAT 487	(3)	Development of the Roentgeniumated
ANAT 488	(3)	Development of the Coperniciumated
ANAT 489	(3)	Development of the Nihoniumated
ANAT 490	(3)	Development of the Fleroviumated
ANAT 491	(3)	Development of the Tennessiumated
ANAT 492	(3)	Development of the Oganessonated
ANAT 493	(3)	Development of the Unbiniliumated
ANAT 494	(3)	Development of the Ununniliumated
ANAT 495	(3)	Development of the Ununniliumated
ANAT 496	(3)	Development of the Ununniliumated
ANAT 497	(3)	Development of the Ununniliumated
ANAT 498	(3)	Development of the Ununniliumated
ANAT 499	(3)	Development of the Ununniliumated
ANAT 500	(3)	Development of the Ununniliumated

3 credits of biologically oriented courses (BOC) selected from:

Human Musculoskeletal Anatomy (ANAT 314) or Membranes and Cellular Signaling (ANAT 458) or Cell and Molecular Biology of Aging (ANAT 541) or Diseases-Membrane Trafficking (ANAT 565) or Cellular Neurobiology (NEUR 310)

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 Oncogenes
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 514	(3)	Neurobiology Learning and Memory
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
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
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 413	(3)	Parasitology
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
NEUR 310	(3)	Cellular Neurobiology
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action

PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology

- **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, en





MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

**Complementary Courses (27 credits)**

24-27 credits:

Note: All students are encouraged to consult with the Undergraduate Adviser for help selecting from among the complementary courses.

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry

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
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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

Note: Students are required to fulfill the core complementary requirements along with one of the four streams listed below. In cases of overlap, each course can only be used once toward the satisfaction of the core complementary courses or the chosen stream.

#### Core (21 credits)

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 219*	(3)	Introduction to Atmospheric Chemistry

\* Note: students may select ATOC 219 or CHEM 219 but not both.

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

6-9 credits selected from:

CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
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CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
MATH 203*	(3)	Principles of Statistics 1
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 324*	(3)	Statistics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340**	(3)	Majors Electricity and Magnetism
PHYS 342***	(3)	Majors Electromagnetic Waves
PHYS 350**	(3)	Honours Electricity and Magnetism
PHYS 352***	(3)	Honours Electromagnetic Waves

\* 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
h.nh.n	(3)	Investigating the Earth System

+ Students cannot receive credit for both ATOC 404 and PHYS 404.

++ Students cannot receive credit for both PHYS 432 or MATH 555.

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
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 548	(3)	Mesoscale Meteorology.
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
EPSC 513	(3)	Climate and the Carbon Cycle
EPSC 542	(3)	Chemical Oceanography
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

+ 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)**

Introduction: Physics of the

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 Thermal and Statistical Ph

ATOC 480	(3)	Honours Research Project
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 (47 credits)

45-47 credits

Note: Students are required to fulfill the core complementary requirements along with one of the four streams listed below. In cases of overlap, each course can only be used once toward the satisfaction of the core complementary courses or the chosen stream.

#### Core (24 credits)

3-6 credits selected from:

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 219*	(3)	Introduction to Atmospheric Chemistry

\* Students may take ATOC 219 or CHEM 219 but not both.

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

3 credits selected from:

CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
MATH 319	(3)	Introduction to Partial Differential Equations

6-9 credits selected from:

CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
MATH 203*	(3)	Principles of Statistics 1
MATH 317	(3)	Numerical Analysis



MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340**	(3)	Majors Electricity and Magnetism
PHYS 342***	(3)	Majors Electromagnetic Waves
PHYS 350**	(3)	Honours Electricity and Magnetism
PHYS 352***	(3)	Honours Electromagnetic Waves

\* 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 (23 credits)**

(22-23 credits)

16 credits from:

ATOC 309	(3)	Weather Radars and Satellites
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 521	(3)	Cloud Physics
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion

6-7 credits selected from:

ATOC 404+	(3)	Climate Physics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
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
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids

+ 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 (22 credits)**

(21-22 credits)

15 credits from:

ATOC 404+	(3)	Climate Physics
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ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 531	(3)	Dynamics of Current Climates
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
PHYS 404+	(3)	Climate Physics

+ Students cannot receive credit for both ATOC 404 and PHYS 404.

Students cannot receive credit for both MATH 203 and MATH 324.

6-7 credits (3 of which must be ATOC) selected from:

ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
EPSC 513	(3)	Climate and the Carbon Cycle
EPSC 542	(3)	Chemical Oceanography
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
MATH 423	(3)	Regression and Analysis of Variance
MATH 555++	(4)	Fluid Dynamics
PHYS 432++	(3)	Physics of Fluids

+ Students cannot receive credit for both PHYS 432 or MATH 555.

### **Atmospheric Chemistry and Physics Stream (21 credits)**

15 credits from:

ATOC 309	(3)	Weather Radars and Satellites
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ATOC 558	(3)	Numerical Methods and Laboratory
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
EPSC 513	(3)	Climate and the Carbon Cycle
EPSC 542	(3)	Chemical Oceanography
MATH 423	(3)	Regression and Analysis of Variance
PHYS 404+	(3)	Climate Physics

+ Student cannot receive credit for both ATOC 404 and PHYS 404.

### General Stream (22 credits)

21-22 credits (at least 15 of which must be ATOC) selected from:

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
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 548	(3)	Mesoscale Meteorology.
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
CHEM 367	(3)	Instrumental Analysis 1
CHEM 575	(3)	Chemical Kinetics
EPSC 513	(3)	Climate and the Carbon Cycle
EPSC 542	(3)	Chemical Oceanography
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
MATH 423	(3)	Regression and Analysis of Variance
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids

+ Students cannot receive credit for both ATOC 404 and PHYS 404.

++ Students cannot receive credit for both PHYS 432 or MATH 555.

### 11.13.3.9 Diploma (Dip.) Meteorology (30 credits)

The Department offers an intensive, one-year program in theoretical and applied meteorology to B.Sc. or B.Eng. graduates of suitable standing in physics, applied mathematics or other appropriate disciplines, leading to a Diploma in Meteorology. The program is designed for students with little or no previous background in meteorology who wish to direct their experience to atmospheric or environmental applications, or who need to fulfil academic prerequisites in meteorology to qualify for employment. For further information, consult the Administrative Officer, Burnside Hall, Room 946.

An exemption of up to 6 credits may be allowed for courses already taken. Students granted such exemptions are required to add complementary courses from an approved list to maintain a total credit count of 30 completed at McGill.

### Required Courses (15 credits)

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 521	(3)	Cloud Physics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2

### Complementary Courses (15 credits)

6 credits selected from the courses below.

\* Students take either ATOC 519 or CHEM 519.

ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 519*	(3)	Advances in Chemistry of Atmosphere
CHEM 519*	(3)	Advances in Chemistry of Atmosphere

9 credits ordinarily selected from:

\* Students take either PHYS 432 or MATH 555.

ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 555*	(4)	Fluid Dynamics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432*	(3)	Physics of Fluids

### 11.13.3.10 Atmospheric and Oceanic Sciences (ATOC) Related Programs

#### 11.13.3.10.1 Internship Year in Science (IYS)

IYS is a pregraduate work experience program available to eligible students and normally taken between their U2 and U3 years. For more information, see [section 11.12: Science Internships and Field Studies](#).

The following programs are also available with an internship component:

- Major in Atmospheric Science
- Honours in Atmospheric Science

#### 11.13.3.10.2 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 Atmospheric and Oceanic Sciences interested in this program should contact Professor Bruno Tremblay ([bruno.tremblay@mcgill.ca](mailto:bruno.tremblay@mcgill.ca)). For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

## 11.13.4 Biochemistry (BIOC)

### 11.13.4.1 Location

McIntyre Medical Building  
3655 Promenade Sir-William-Osler, Room 905  
Montreal QC H3G 1Y6  
Telephone: 514-398-7262  
Email: [undergrad.biochem@mcgill.ca](mailto:undergrad.biochem@mcgill.ca)  
Website: [www.mcgill.ca/biochemistry](http://www.mcgill.ca/biochemistry)

### 11.13.4.2 About Biochemistry

#### What is Biochemistry?

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 to in all fields of medicine, in agriculture, and in many chemical- and health-related industries. Biochemistry is also unique in providing teaching and research 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 departmental programs offered, providing students with a useful concentration in Biochemistry, while .30nmte programs:

positions in industry and health. These range from R&D in the chemical and pharmaceutical industries, to testing and research in government and hospital laboratories, to management. Many graduates take higher degrees in research and attain academic positions in universities and colleges.

Additional information is available on the [Department of Biochemistry website](#).

#### 11.13.4.3 Biochemistry Faculty

##### Chair

Albert Berghuis

##### Emeritus Professors

Rhoda Blostein; B.Sc., M.Sc., Ph.D.(McG.), F.R.S.C.

Philip E. Branton; B.Sc., M.Sc., Ph.D.(Tor.), F.R.S.C. (*Gilman Cheney Professor of Biochemistry*)

Peter E. Braun; B.Sc., M.Sc.(Br. Col.), Ph.D.(Calif., Berk.)

Robert E. MacKenzie; B.Sc.(Agr.)(McG.), M.N.S., Ph.D.(Cornell)

Edward A. Meighen; B.Sc.(Alta.), Ph.D.(Calif., Berk.)

Walter E. Mushynski; B.Sc., Ph.D.(McG.)

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.(Rijks Univ. Groningen, The Netherlands), Ph.D.(Br. Col.)

Maxime Bouchard; B.Sc., Ph.D.(Laval)

Imed Gallouzi; Maitrise, D.E.A., Ph.D.(Montpellier, France)

Kalle Gehring; B.A.(Brown), M.Sc.(Mich.), Ph.D.(Calif., Berk.) (*Chercheur National dCher*)

## Assistant Professors

Uri David Akavia; B.Sc., M.Sc., Ph.D.(Tel Aviv)

Maxime Denis; B.Sc., Ph.D.(Montr.)

\*\* Complementary courses listed for U1 and U2 may be taken in later years if necessary to accommodate courses that must be taken in U1 and U2 as part of the breadth component of the program.

6 credits selected from:

BIOL 205	(3)	Biology of Organisms
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 (12 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 320	(3)	Laboratory Methods in Biochemistry and Molecular Biology 2
CHEM 302	(3)	Introductory Organic Chemistry 3

### U2 Complementary Courses\*\* (3 credits)

\*\* Complementary courses listed for U1 and U2 may be taken in later years if necessary to accommodate courses that must be taken in U1 and U2 as part of the breadth component of the program.

3 credits selected from:

BIOL 373	(3)	Biometry
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 297	(1)	Introductory Analytical Chemistry Laboratory
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 Complementary Courses (3 credits)

3 credits selected from:

BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

### 11.13.4.5 Bachelor of Science (B.Sc.) - Major Biochemistry (64 credits)

Students may transfer into the Major program at any time, provided they have met all course requirements.

### U1 Required Courses (23 credits)

\* Note: Students with CEGEP-level credit for the equivalents of CHEM 212 and/or CHEM 222 (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take these courses at McGill and should replace them with elective courses to satisfy the total credit requirement for their degree.

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	(3)	Basic Genetics



CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2

**U1 Complementary Courses (6 credits)**

6 credits selected from:

BIOL 205	(3)	Biology of Organisms
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 Oncogenes
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
CHEM 572	(3)	Synthetic Organic Chemistry
EXMD 502	(3)	Advanced Endocrinology 1
MIMM 324	(3)	Fundamental Virology
PHAR 300	(3)	Drug Action
PHGY 311	(3)	Channels, Synapses and Hormones

#### 11.13.4.6 Bachelor of Science (B.Sc.) - Honours Biochemistry (73 credits)

Admission to the Honours program will not be granted until U2. Students who wish to enter the Honours program in U2 should follow the U1 Major program. Those who satisfactorily complete the U1 Major program with a GPA of at least 3.20 and a mark of B- or better in every required course are eligible for admission to the Honours program.

Students seeking admission to the Honours program must obtain permission from the Departmental Student Affairs Officer, Christine Laberge (christine.laberge@mcgill.ca), during the Add/Drop period in September of their second year.

Promotion to U3 year is based on satisfactory completion of U2 courses with a GPA of at least 3.20 and a mark of B- or better in every required course. In borderline cases, the marks received in BIOC 311 and BIOC 312 will be of particular importance for continuation in the U3 Honours year.

For graduation in the Honours program, students must complete a minimum of 90 credits, pass all required courses with no grade less than B-, and achieve a CGPA of at least 3.20.

#### U1 Required Courses (23 credits)

\* Note: Students with CEGEP-level credit for the equivalents of CHEM 212 and/or CHEM 222 (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take these courses at McGill and should replace them with elective courses to satisfy the total credit requirement for their degree.

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	(3)	Basic Genetics
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 222*	(4)	Introductory Organic Chemistry 2

#### U1 Complementary Courses (6 credits)

6 credits selected from:

BIOL 205	(3)	Biology of Organisms
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
MA	(3)	Principles of Statistics 1

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 Oncogenes
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
CHEM 572	(3)	Synthetic Organic Chemistry
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
MIMM 324	(3)	Fundamental Virology
PHAR 300	(3)	Drug Action
PHGY 311	(3)	Channels, Synapses and Hormones

#### 11.13.4.7 Biochemistry (BIOC) Related Programs

##### 11.13.4.7.1 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 the program should contact:

Dr. C. Piccirillo  
 Microbiology and Immunology  
 Telephone: 514-934-1934, ext. 76143  
 Email: [ciro.piccirillo@mcgill.ca](mailto:ciro.piccirillo@mcgill.ca)

OR

Dr. Monroe Cohen  
 Physiology  
 Telephone: 514-398-4342  
 Email: [monroe.cohen@mcgill.ca](mailto:monroe.cohen@mcgill.ca)

#### 11.13.5 Biology (BIOL)

##### 11.13.5.1 Location

Stewart Biology Building, Room N7/9B  
 1205 avenue Docteur Penfield  
 Montreal QC H3A 1B1  
 Telephone: 514-398-4109  
 Fax: 514-398-5069  
 Website: [biology.mcgill.ca](http://biology.mcgill.ca)

##### 11.13.5.2 About Biology

Biology is the study of living things at the molecular, cellular, organismal, and ecosystem levels. It deals with fundamental questions such as:

- the origin and evolution of plants and animals;
- interactions between living organisms and their environment;
- mechanisms of embryonic development;
- structure and function of the living cell and individual molecules within it;
- molecular basis of inheritance;
- biochemical and genetic basis of human diseases; and
- how the brain and the nervous system control behaviour.

### 11.13.5.3 Preprogram Requirements

Requirements for the Major and Honours programs in Biology are:

- two courses in elementary Biology;
- two courses in general Chemistry;
- two courses in Mathematics (as per the Freshman requirements);
- two courses in Physics (mechanics and electromagnetism).

Students entering the B.A. & Sc., the Liberal program, and the Biology Science Minor have the same biology, chemistry, and mathematics requirements. The physics requirements will vary according to their future direction. Note that satisfying the minimum Freshman science requirements does not necessarily qualify students for medical or dental school admissions requirements.

Students planning to take one of the joint majors or the Quantitative Biology Major or Honours options should consult:

Undergraduate Adviser  
Stewart Biology Building, Room N7/9B  
Telephone: 514-398-4109

to ensure they are taking the appropriate prerequisites.

### 11.13.5.4 Biology Concentrations



**Note:** The concentrations set out below are only guidelines for specialized training. *They do not constitute sets of requirements.*



**Note:** *Courses used to satisfy the complementary course components of the Major program must be at the 300+ level. Any 200 level courses listed below must be taken as electives.*



**Note:** Please see guidelines and policies for taking courses outside Arts and Science at [www.mcgill.ca/science/student/continuingstudents/bsc/outside](http://www.mcgill.ca/science/student/continuingstudents/bsc/outside).

Students interested in advanced studies in any biological discipline are strongly advised to develop their skills in computing as appropriate. As an aid to students wishing to specialize, key and suggested courses are listed by discipline.

#### 11.13.5.4.1 Animal Behaviour Concentration

Understanding the diverse ways in which animals feed, mate, care for their offspring, avoid predators, select their habitats, communicate, and process information constitute the subject matter of behaviour. Several approaches are used to study these questions: some focus on ecological consequences and determinants; some on physiological, genetic, and developmental mechanisms; and others on evolutionary origins.

**Key courses:** BIOL 304, BIOL 305, BIOL 306, BIOL 307, BIOL 320, BIOL 331, or BIOL 334D1/D2 or another field course with a significant behavioural component, BIOL 373, BIOL 507.

**Other suggested courses:** BIOL 377, BIOL 466, BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2.

Most courses from the fields of behaviour, ecology, and evolutionary biology will be relevant for this concentration. Some courses that focus on a particular taxonomic group such as birds (Natural Resource Sciences WILD 420), amphibians and reptiles (BIOL 427), and marine mammals (BIOL 335) include a significant amount of information on behaviour.

#### 11.13.5.4.2 Biological Diversity and Systematics

The study of biological diversity deals with the maintenance, emergence, and history of the inexhaustible variety of different kinds of organisms. It is deeply concerned with the particular characteristics of different organisms and therefore emphasizes the detailed study of particular groups and forms the basis of comparative biology. Our knowledge of diversity is organized through the study of systematics, which seeks to understand the history of life and the phylogenetic and genetic relationships of living things. Appreciation and knowledge of diversity and systematics are essential in ecology and evolutionary biology, and underlie all work in resource utilization and conservation biology.

**Key courses:** BIOL 304, BIOL 305, BIOL 373.

**Other suggested courses:** BIOL 240, BIOL 310, BIOL 320, BIOL 324, BIOL 331, BIOL 334D1/D2, BIOL 335, BIOL 342, BIOL 350/ENTO 350, BIOL 352, BIOL 377, BIOL 418, BIOL 427, BIOL 428, BIOL 429, BIOL 463, BIOL 465, BIOL 466 or BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2, BIOL 515, BIOL 540, BIOL 569, BIOL 573, BIOL 594, REDM 400, REDM 405.

**Macdonald campus:** PLNT 358, WILD 307, WILD 350, WILD 420, WILD 424.

#### 11.13.5.4.3 Conservation Biology Concentration

Conservation biology is the study and protection of biological diversity. It is a scientific discipline closely connecting ecology and evolutionary biology with applications in public policy and management. Conservation biology focuses on keeping normal evolutionary processes working within a functional ecological context and deals with issues of how the wide variety of organisms and ecosystems can be maintained and prevented from declining. It considers population and habitat viability and complexity in the face of threats and perturbations. Cognizance of biological diversity, knowledge, expertise in both ecology and evolutionary biology, and appreciation for the political, social, and economic contexts of the biodiversity crisis underlie all work in conservation biology.

**Key courses:** BIOL 308, BIOL 310, BIOL 373, BIOL 465, plus at least one of the following field courses: BIOL 331 or BIOL 334D1/D2 or BIOL 335 or BIOL 428 or BIOL 429 or BIOL 553.

**Other suggested courses:** BIOL 304, BIOL 305, BIOL 307, BIOL 324, BIOL 342, BIOL 350, BIOL 377, BIOL 413, BIOL 427, BIOL 466, BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2, BIOL 510, BIOL 515, BIOL 540, BIOL 594, ECON 225, ECON 326, GEOG 470, REDM 400.

**Macdonald campus:** PLNT 358, WILD 350, WILD 420, WILD 421.

#### **11.13.544 Concentrations Available Within the Area of Ecology**

Ecology is the study of the interactions between organisms and environment that affect distribution, abundance, and other characteristics of organisms. A strong analytical and quantitative orientation is common to all areas of ecology, and thus students wishing to specialize in these areas are strongly encouraged to develop their background in statistical analysis, computing, and mathematical modeling. Many of the ecology courses feature a strong analytical component, and students will find that background preparation in this area is very useful, if not essential. Ecology depends heavily on field research, and thus BIOL 331 and/or other field courses should be considered as vital to all concentrations in this area.

##### *11.135441 General and Applied Ecology Concentration*

The concentration in general and applied ecology is designed to introduce the breadth of contemporary ecology at the levels of the ecosystem, communities, and populations, and at the level of the individual organism, with an accent on the application of this science to practical problems in environmental management, and the management of resources and pests. In addition to general courses dealing with general principles, there is a selection of courses dealing with particular groups of organisms. Since it is essential to know how knowledge is obtained, the concentration includes a field course in ecology.

**Key courses:** BIOL 305, BIOL 308, BIOL 331 or BIOL 334D1/D2, BIOL 342, BIOL 350, BIOL 373, COMP 204, COMP 273.

**Other suggested courses:** BIOL 307, BIOL 324, BIOL 377, BIOL 418, BIOL 427, BIOL 428, BIOL 429, BIOL 432, BIOL 441, BIOL 465, BIOL 466, BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2, BIOL 510, BIOL 515, BIOL 540, BIOL 594, GEOG 302, REDM 405.

**Macdonald campus:** PLNT 460.

##### *11.135442 Aquatic Ecology Concentration*

This concentration is designed to introduce the principles of ecology as they pertain to aquatic ecosystems and aquatic biota. Since it is essential to know how knowledge is obtained, as well as what has been learned, one of the courses (Limnology) involves field work, and one (Biological Oceanography) involves a laboratory component; these courses stress the techniques used to study aquatic ecology. In addition, the concentration includes a field course in ecology. There are also a variety of courses in aquatic disciplines offered in other departments that complement the Biology Department's aquatic ecology courses.

**Key courses:** BIOL 305, BIOL 308, BIOL 331 or another field course, BIOL 342, BIOL 373, BIOL 418, BIOL 427, BIOL 432, BIOL 441, BIOL 465, BIOL v



**Note:** HGEN 396 can only be taken as an elective. It can count towards the requirements of the Dean's Multidisciplinary Undergraduate Research List (DMURL).

#### **11.13.5.4.7 Molecular Genetics and Development Concentration**

The discoveries that hav



## Professors

Lauren Chapman; B.Sc.(Alta.), Ph.D.(McG.) (*Canada Research Chair in Respiratory Ecology and Aquatic Conservation*)

Gregor Fussmann; Dipl.(Berlin), Ph.D.(Max Planck)

Andrew Gonzalez; B.Sc.(Nott.), Ph.D.(Imperial Coll., Lond.) (*Canada Research Chair in Biodiver*

#### Assistant Professors

Laura Pollock; M.Sc. (S. Illinois); Ph.D. (Melbourne) (*beginning Aug. 2019*)

Jennifer Sunday; B.Sc.(Br. Col.), Ph.D.(Simon Fraser)

Stephanie C. Weber; B.Sc.(Duke), Ph.D.(Stan.)

#### Associate Members

*BioEngineering*: Adam Hendricks

*Biochemistry*: *Biochemistry*: Maxime Bouchard

*Centre for Research in Neuroscience*: Sal Carbonetto, Yong Rao, Donald Van Meyel

*Environment*: Colin Chapman

*Glen site*: Hugh J. Clarke, Daniel Dufort, Teruko Taketo

*MCH*: Rima Rozen

*Medical Genetics, Chair*: David Rosenblatt

*MNI*: Kenneth Hastings

*Physics*: Paul Francois

*Redpath Museum*: Rowan Barrett, David Green, Hans Larsson, Virginie Millien, Anthony Ricciardi

#### Adjunct Professors

*BELLUS Health Inc.*: Francesco Bellini

*Humboldt Univ., Berlin*: Rudiger Krahe

*IRCM*: Frédéric Charron, David Hipfner

*STRI*: Andrew Altieri, Hector Guzman, William Owen McMillan, Mark Torchin

*Univ. of British Columbia*: Jonathan Davies

*Univ. of the West Indies*: Henri Valles

#### 11.13.5.6 Bachelor of Science (B.Sc.) - Minor Biology (25 credits)

The Minor Biology may be taken in conjunction with any primary program in the Faculty of Science (other than programs offered by the Department of Biology). Students are advised to consult the undergraduate adviser in Biology as early as possible (preferably during their first year), in order to plan their course selection.

See Nancy Nelson, Stewart Biology Building, 514-398-4109, email: nancy.nelson@mcgill.ca.

6 credits of overlap are allowed between the Minor and the primary program.

#### Required Courses (15 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution

#### 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
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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)**

Students may complete this program with a minimum of 45 credits or a maximum of 47 credits depending on their choice of complementary courses.

##### **Required Courses (19 credits)**

\* If a student has already taken CHEM 212 or its equivalent, the 4 credits can be made up with a 3-credit complementary.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212*	(4)	Introductory Organic Chemistry 1

##### **Complementary Courses (28 credits)**

Students complete a minimum of 27 credits or a maximum of 28 complementary course credits selected as follows:

3 or 4 credits selected from:

BIOL 206	(3)	Methods in Biology of Organisms
BIOL 301	(4)	Cell and Molecular Laboratory

##### **24 credits of Biology courses**

9 credits of which, in consultation with the Biology Program Adviser, can be replaced with appropriate Science courses from other departments.

No more than 6 of the 24 credits can be taken at the 200 level.

#### **11.13.5.8 Bachelor of Science (B.Sc.) - Major Biology (59 credits)**

The Major requires 58 or 59 credits depending on a student's choice of complementary courses.

Students in the Major program are permitted to take a maximum of 9 credits of research courses.

##### **Required Courses**

25-26 credits:

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 301	(4)	Cell and Molecular Laboratory
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 a 3- or 4-credit complementary course to be approved by the Biology Adviser.

##### **Core Complementary Courses (12 credits)**

12 credits selected from:

BIOL 300

(3)

Molecular Biology of the Gene  
Dev

**Course Requirements for Quantitative Biology Streams (21 credits)**

21 credits from one of the following two streams:

**Stream 1: Theoretical Ecology and Evolutionary Biology (21 credits)**

Biology

BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
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 (21 credits)**

BIOL 319	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications
PHYS 446	(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
COMP 364	(3)	Computer Tools for Life Sciences
MATH 235**	(3)	Algebra 1
MATH 240**	(3)	Discrete Structures
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
MATH 348	(3)	Euclidean Geometry
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes

\* Students may take COMP 350 OR MATH 317.

\*\*MATH 235 or MATH 240 are required for COMP 251.

Recommendations for Physical Biology stream

BIEN 310	(3)	Introduction to Biomolecular Engineering
BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 340	(3)	Transport Phenomena in Biological Systems 2
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
CHEM 222	(4)	Introductory Organic Chemistry 2
PHYS 242*	(2)	Electricity and Magnetism

PHYS 257	(3)	Experimental Methods 1
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 434	(3)	Optics
PHYS 519	(3)	Advanced Biophysics
PHYS 534	(3)	Nanoscience and Nanotechnology

\* PHYS 242 is required for PHYS 342 and PHYS 434.

Recommendations for Theoretical Ecology and Evolutionary Biology stream

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 324	(3)	Ecological Genetics
MATH 242	(3)	Analysis 1
MATH 340	(3)	Discrete Structures 2
MATH 423	(3)	Regression and Analysis of Variance
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHYS 329	(3)	Statistical Physics with Biophysical Applications

**Bac**

**Biology and Mathematics Core**

9 credits

BIOL 215	(3)	Introduction to Ecology and Evolution
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2

**Complementary Courses (39 credits)**

For the 39 credits, students complete 21 credits of BIOL, NEUR, PHGY, PSYC courses including one of three streams (Ecology and Evolutionary Ecology, Molecular Evolution, Neurosciences) and 18 credits of MATH courses.

**Math or Biology Research Course**

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)	Regression and Analysis of Variance
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 Structures 2



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 of Organisms
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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)	Biology of Organisms
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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BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Biology of Organisms
BIOL 206	(3)	Methods in Biology of Organisms
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 373*	(3)	Biometry
BIOL 499D1	(2)	Honours Seminar in Biology
BIOL 499D2	(2)	Honours Seminar in Biology
		Introductory Or

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
		Quantitati

\* 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 Evolutionar**

PHYS 446 (3) 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
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 (9 credits)

Recommendations for either Theoretical Ecology and Evolutionary Biology or Physical Biology streams

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
COMP 364	(3)	Computer Tools for Life Sciences
MATH 235**	(3)	Algebra 1
MATH 240**	(3)	Discrete Structures
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
MATH 348	(3)	Euclidean Geometry
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes

\* Students may take COMP 350 OR MATH 317.

\*\* MATH 235 or MATH 240 are required for COMP 251.

Recommendations for Physical Biology stream

BIEN 310	(3)	Introduction to Biomolecular Engineering
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BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 340	(3)	Transport Phenomena in Biological Systems 2
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
CHEM 222	(4)	Introductory Organic Chemistry 2
PHYS 242*	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 413	(3)	Physical Basis of Physiology
PHYS 434	(3)	Optics
PHYS 519	(3)	Advanced Biophysics
PHYS 534	(3)	Nanoscience and Nanotechnology

\* PHYS 242 is required for PHYS 342 and PHYS 434.

#### Recommendations for Theoretical Ecology and Evolutionary Biology stream

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 324	(3)	Ecological Genetics
MATH 242	(3)	Analysis 1
MATH 340	(3)	Discrete Structures 2
MATH 423	(3)	Regression and Analysis of Variance
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHYS 329	(3)	Statistical Physics with Biophysical Applications

### 11.13.5.13 Biology (BIOL) Related Programs and Study Semesters

#### 11.13.5.13.1 Joint Major in Computer Science and Biology

For more information, see [section 11.13.9.11: Bachelor of Science \(B.Sc.\) - Major Computer Science and Biology \(74 credits\)](#).

#### 11.13.5.13.2 Joint Honours in Computer Science and Biology

For more information, see [section 11.13.9.15: Bachelor of Science \(B.Sc.\) - Honours Computer Science and Biology \(77 credits\)](#).

#### 11.13.5.13.3 Panama Field Study Semester

The program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. For more information, see [Study Abroad & Field Studies > Undergraduate > Field Study Semesters and Off-Campus Courses > Field Study Minor > section 12.2.1.5: Panama Field Study Semester](#). You can also visit the following website for details: [www.mcgill.ca/science/student/internships-field](http://www.mcgill.ca/science/student/internships-field).

#### 11.13.5.13.4 Africa Field Study Semester

The Department of Geography, Faculty of Science, coordinates the 15-credit interdisciplinary Africa Field Study Semester; see [Study Abroad & Field Studies > Undergraduate > Field Study Semesters and Off-Campus Courses > Field Study Minor > section 12.2.1.1: Africa Field Study Semester](#). You can also visit the following website for details: [www.mcgill.ca/science/student/internships-field](http://www.mcgill.ca/science/student/internships-field).

## 11.13.6 Biotechnology (BIOT)

### 11.13.6.1 Location

Stewart Biology Building, Room N7/9B  
 1205 Dr. Penfield Avenue  
 Montreal QC H3A 1B1  
 Telephone: 514-398-4109  
 Email: [nancy.nelson@mcgill.ca](mailto:nancy.nelson@mcgill.ca)

Website: [biology.mcgill.ca/undergrad/minorprog\\_biotech.html](http://biology.mcgill.ca/undergrad/minorprog_biotech.html)

### **11.13.6.2 About Biotechnology**

Biotechnology, the science of understanding, selecting, and promoting useful organisms and specific gene products for commercial and therapeutic purposes,



**Complementary Courses (9 credits)**

9 credits selected from courses outside the department of the student's main program. Students may select three courses from one of the lists below, or may choose three alternate courses with adviser approval.

**Biomedicine**

ANAT 541	(3)	Cell and Molecular Biology of Aging
EXMD 504	(3)	Biology of Cancer
PATH 300	(3)	Human Disease

**Chemical Engineering**

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 474	(3)	Biochemical Engineering

**Chemistry**

CHEM 482	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 552	(3)	Physical Organic Chemistry

**General**

FACC 300	(3)	Engineering Economy
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**Immunology**

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 503	(3)	Immunochemistry
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 414	(3)	Advanced Immunology
PHGY 513	(3)	Cellular Immunology

**Management**

ECON 208	(3)	Microeconomic Analysis and Applications
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 472	(3)	Operations Management

**Microbiology**

MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
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 Oncogenes
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](#) > [BrB10](#) g 67.52 2Tm69319m(05Tj1 0 0 1 247.635835.7519m(05Tj1 telephone: 514-398-69990 g 67.52 2Tm6931855.95

Website: [www.mcgill.ca/chemistry/current-undergraduate-students/advising](http://www.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 tow



**Adjunct Professors**

N. Braidy, I. Wharf, R. Zamboni

**11.13.7.5 Bachelor of Science (B.Sc.) - Minor Chemistry (20 credits)****Required Courses (13 credits)**

\* Denotes courses with CEGEP equivalents.

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.

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 281	(3)	Inorganic Chemistry 1

**Complementary Courses**

6-7 credits \*\*

CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 219	(3)	Introduction to Atmospheric Chemistry
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 319	(3)	Chemistry of Energy, Storage and Utilization
CHEM 334	(3)	Advanced Materials
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 462	(3)	Green Chemistry

\*\* Any level 300-500 CHEM course can be substituted for courses within this list.

**11.13.7.6 Bachelor of Science (B.Sc.) - Minor Chemical Engineering (24 credits)**

A Chemical Engineering Minor will be of interest to Chemistry students who wish to study the problems of process engineering and its related subjects. A student completing this Minor will be able to make the important link between molecular sciences and industrial processing. This Minor will not provide Professional Engineering accreditation.

**Required Courses (6 credits)**

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2

**Complementary Courses (18 credits)**

At least one of:

CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 314	(3)	Fluid Mechanics

with the remainder chosen from the following:

\* Students select either CHEE 494 or CHEE 495

CHEE 230	(3)	Environmental Aspects of Technology
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CHEE 315	(3)	Heat and Mass Transfer
CHEE 351	(3)	Separation Processes
CHEE 370	(3)	Elements of Biotechnology
CHEE 380	(3)	Materials Science
CHEE 438	(3)	Engineering Principles in Pulp and Paper Processes
CHEE 452	(3)	Particulate Systems
CHEE 494*	(3)	Research Project and Seminar 1
CHEE 495*	(4)	Research Project and Seminar 2
CHEE 587	(3)	Chemical Processing: Electronics Industry
CHEE 592	(3)	Industrial Air Pollution Control
CHEE 593	(3)	Industrial Water Pollution Control
MATH 314	(3)	Advanced Calculus

### **11.13.7.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - Biological (47 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 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.

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CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 482	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry

3 credits from any CHEM course at the 300 or higher level.

### 11.13.7.8 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 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 Basic Core Courses (26 credits)

The required courses in this program consist of 26 credits in chemistry and mathematics listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

The Liberal Program: Core Science Component Chemistry - General Option 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.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is strongly recommended.

\* Denotes courses with CEGEP equivalents.

\*\* 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 381	(3)	Inorganic Chemistry 2
MATH 222**	(3)	Calculus 3

#### General Option Courses (17 credits)

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 345	(3)	Introduction to Quantum Chemistry
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 392	(3)	Integrated Inorganic/Organic Laboratory
PHYS 242	(2)	Electricity and Magnetism

#### Complementary Course (6 credits)

6 credits from:

CHEM 355	(3)	Applications of Quantum Chemistry
MATH 315	(3)	Ordinary Differential Equations

Chemistry courses at the 300+ level.

### 11.13.7.9 Bachelor of Science (B.Sc.) - Major Chemistry (59 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 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 (53 credits)

The required courses in this program consist of 53 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is also strongly recommended. Physics PHYS 242 should be completed during U2.

\* Denotes courses with CEGEP equivalents.

\*\* 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 302	(3)	Introductory Organic Chemistry 3
CHEM 332	(3)	Biological Chemistry
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 392	(3)	Integrated Inorganic/Organic Laboratory
	(2)	Advanced Physical Chemistry Laboratory





CHEM 575	(3)	Chemical Kinetics
CHEM 597	(3)	Analytical Spectroscopy
EPSC 542	(3)	Chemical Oceanography

### **11.13.7.11 Bachelor of Science (B.Sc.) - Major Chemistry - Bio-organic (63 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 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 (57 credits)**

The required courses in this program consist of 60 credits in chemistry, biology and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level b4 0 1 70.52 694.12 Tm39.24 8he Ch BIOL212\*.3 T21.949 694.12 Tn

CHEM 365	(2)	Statistical Thermodynamics
MATH 315	(3)	Ordinary Differential Equations

CHEM 493	(2)	Advanced Physical Chemistry Laboratory
PHYS 242	(2)	Electricity and Magnetism

### Complementary Courses

(6-7 credits)

3 credits of:

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2

3-4 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)	NMR Spectroscopy
CHEM 575	(3)	Chemical Kinetics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

### 11.13.7.13 Bachelor of Science (B.Sc.) - Major Chemistry - Materials (62 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 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 required courses in this program consist of 59 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should consult the Academic Adviser.

See <http://www.mcgill.ca/chemistry/current-undergraduate-students/advising/>.

A computer science course, either COMP 202 or COMP 208, is strongly recommended during U1 for students who have no previous introduction to computer programming. Students should contact their adviser on this matter. Completion of Mathematics MATH 222 during U1 is also strongly recommended. Physics PHYS 242 should be completed during U2.

\* Denotes courses with CEGEP equivalents.

\*\* 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 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 332	(3)	Biological Chemistry
CHEM 334	(3)	Advanced Materials
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 392	(3)	Integrated Inorganic/Organic Laboratory
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
CHEM 574	(3)	Introductory Polymer Chemistry
MATH 222**	(3)	Calculus 3
PHYS 242	(2)	Electricity and Magnetism

### Complementary Course (3 credits)

3 credits from the following:

CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 534	(3)	Nanoscience and Nanotechnology
CHEM 571	(3)	Polymer Synthesis
CHEM 585	(3)	Colloid Chemistry
MATH 315	(3)	Ordinary Differential Equations

### 11.13.7.14 Bachelor of Science (B.Sc.) - Major Chemistry - Measurement (62 credits)

The B.Sc.; Major in Chemistry; Measurement provides an emphasis on additional background and advanced courses of interest to physical and analytical chemists.

#### 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 required courses in this program consist of 59 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing this program will not be eligible for admission to the Ordre des chimistes du Québec without additional chemistry electives. This program is not currently accredited by the Canadian Society for Chemistry. See <http://www.chemistry.mcgill.ca/advising/inside/advisors.php>.

Completion of Mathematics MATH 222 and MATH 315 during U1 is also strongly recommended.

\* Denotes courses with CEGEP equivalents.

\*\* 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



**Required Courses (53 credits)**

The required courses in this program consist of 56 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec

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 (63 credits)**

The required courses in this program consist of 63 credits in chemistry and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that



ATOC 214	(3)	Introduction: Physics of the Atmosphere
CHEM 532	(3)	Structural Organic Chemistry
MATH 317	(3)	Numerical Analysis

3 credits, one of:

ATOC 315	(3)	Thermodynamics and Convection
CHEM 567	(3)	Chemometrics: Data Analysis
CHEM 575	(3)	Chemical Kinetics
CHEM 597	(3)	Analytical Spectroscopy
EPSC 542	(3)	Chemical Oceanography

### **11.13.7.17 Bachelor of Science (B.Sc.) - Honours Chemistry - Bio-organic (75 credits)**

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

#### **Program Prerequisites**

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must ha

CHEM 493	(2)	Advanced Physical Chemistry Laboratory
CHEM 502	(3)	Advanced Bio-Organic Chemistry
MATH 222**	(3)	Calculus 3
PHYS 242	(2)	Electricity and Magnetism

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

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**11.13.7.19 Bachelor of Science (B.Sc.) - Honours Chemistry - Materials (74 credits)**

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

**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 (65 credits)**

The required courses in this program consist of 68 credits in chemistry, physics and mathematics, listed below. The courses marked with an asterisk (\*) are omitted from the program of students who have successfully completed them at the CEGEP level but the Chemistry courses must be replaced by courses in that discipline if students wish to be eligible for admission to the Ordre des chimistes du Québec. Students from outside Quebec or transfer students should

9 credits from the following:

\* Students take either ANAT 542 or MIME 542.

ANAT 542*	(3)	Transmission Electron Microscopy
CHEM 462	(3)	Green Chemistry
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 533	(3)	Small Molecule Crystallography
CHEM 534	(3)	Nanoscience and Nanotechnology
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 585	(3)	Colloid Chemistry
MATH 315	(3)	Ordinary Differential Equations
MIME 260	(3)	Materials Science and Engineering
MIME 542*	(3)	Transmission Electron Microscopy

#### **11.13.7.20 Bachelor of Science (B.Sc.) - Honours Chemistry - Measurement (74 credits)**

The B.Sc. Honours in Chemistry; Measurement provides an emphasis on additional background and advanced courses of interest to physical and analytical

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
		Chemistry of Inorg

Students wishing to enrol in the **Minor in Cognitive Science**

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
		Special Topics in N5ht85Nn and the Brain



- Operating systems (the software that shields users from the underlying hardware)
- Database systems (software that handles large amounts of data efficiently)
- Artificial intelligence (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. As 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.

### 11.13.9.5 Admissions

Students intending to pursue a program in Computer Science or Software Engineering should have a reasonable mathematical background and should have completed MATH 140 (or MATH 150), MATH 141 (or MATH 151), and MATH 133, or their CEGEP equivalents. These three Mathematics courses should have been completed with at least an average of B-. A background in computer science is not necessary as students may start their studies with the introductory course COMP 202. However, taking COMP 202 in the Freshman year, or completing an equivalent course in CEGEP, would be an asset that would allow students to take more advanced courses earlier in their program.

More information about the admission process and programs is available at [www.cs.mcgill.ca](http://www.cs.mcgill.ca).

### 11.13.9.6 Computer Science Faculty

#### Director

B. Kemme

#### Emeritus Professors

D. Avis; B.Sc.(Wat.), Ph.D.(Stan.)

R. De Mori; Ph.D.(Politecnico Torino)

T.H. Merrett; B.Sc.(Qu.), D.Phil.(Oxf.)

M.M. Newborn; B.E.E.(Rensselaer Poly

### Associate Professors

Y.Li; B.Sc.(Sask.), M.Sc., Ph.D.(Tor.)

M. Maheswaran; B.Sc.(U. Peradeniya), M.Sc., Ph.D.(Purdue)

E. Patitsas; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.)

B. Pientka; B.Sc., M.Sc.(Tech. U. of Darmstadt, Germany), Ph.D.(Carn. Mell)

J. Pineau; B.Sc.(Wat.), M.Sc., Ph.D.(Carn. Mell) (*William Dawson Scholar*)

D. Precup; B.Sc.(Tech. U. of Cluj-Napoca), M.Sc., Ph.D.(Mass.)

R. Rabbany; B.Sc.(Amirkabir University of Technology, Iran), M.Sc., Ph.D.(Alta.)

D. Ruths; B.Sc., M.Sc., Ph.D.(Rice)

C. Verbrugge; B.A.(Qu.), Ph.D.(McG.)

A. Vetta; B.Sc., M.Sc.(LSE), Ph.D.(MIT)

J. Waldispuhl; B.Sc.(Nice Sophia Antipolis), M.Sc.(Paris VII), Ph.D.(École Poly., France)

### Assistant Professors

Y. Cai; B.S.(Peking), M.S., Ph.D.(MIT) (*William Dawson Scholar*)

J. Cheung; B.Sc.(Br. Col.), M.Sc., Ph.D.(Tor.)

D.Meger; B.Sc.(Br. Col.), M.Sc.(McG.), Ph.D.(Br. Col.)

### Faculty Lecturer

G. Alberini; B.Sc., M.Sc.(Universita degli Studi di Padova, Italy), Ph.D.(McG.)

J. Vybihal; B.Sc., M.Sc.(McG.)

### Associate Members

D. Schlimm (

COMP 273	(3)	Introduction to Computer Systems
MATH 240	(3)	Discrete Structures

**11.13.9.8 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Computer Science (45 credits)**

This program provides an introduction to the principles of computer science and offers opportunity to get insight into some of its sub-areas. Having only 45 credits, it allows students to combine it with minor or major concentrations in other disciplines.

**Required Courses (18 credits)**

\* Students who have sufficient knowledge in a programming language do not need to take COMP 202, but it must be replaced 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 (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 Structures 2

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 allo

**11.13.9.10 Bachelor of Science (B.Sc.) - Major Computer Science (63 credits)**

This program is the standard Major program offered by the School of Computer Science. It provides a broad introduction to the principles of computer science and offers ample opportunity to acquire in-depth kno

Students may complete this program with a minimum of 63 credits and maximum of 74 credits depending upon whether they take COMP 202/204, CHEM 212, MATH 222, and COMP 462 versus COMP 561.

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 (46 credits)

36-46 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
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
MATH 240	(3)	Discrete Structures

#### Biology

BIOL 202	(3)	Basic Genetics
BIOL 215	(3)	Introduction to Ecology and Evolution

#### Required Joint Courses

COMP 401	(3)	Project in Biology and Computer Science
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\* 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 elective courses to satisfy the total credit requirement for their degree.

\*\* Students may take either COMP 202 or COMP 204, but not both. Students who have sufficient knowledge in a programming language are not required to take these courses.

#### Complementary Courses

27-28 credits

3-4 credits from the following:

COMP 462	(3)	Computational Biology Methods
COMP 561	(4)	Computational Biology Methods and Research

3-6 from the following:

MATH 315	(3)	Ordinary Differential Equations
MATH 324	(3)	Statistics

The remaining 18-21 credits is to be chosen from the following, with at least 9 credits at the 400 level or above.

### Computer Science Block

9-12 credits from the following, with 3-6 credits at the 400 level or above.

Note: All COMP courses at the 400 level or above (except COMP 400, 401, 402, 499, 462, and 561).

COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design
COMP 307	(2)	Principles of Web Development
COMP 310	(3)	Operating Systems
COMP 322	(1)	Introduction to C++
COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design
COMP 361D1*	(3)	Software Engineering Project
COMP 361D2*	(3)	Software Engineering Project

\* Students must take both COMP 361D1 and COMP 361D2.

### Biology Block

9-12 credits from the following, with 3-6 credits at the 400 level or above:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 308	(3)	Ecological Dynamics
BIOL 309	(3)	Mathematical Models in Biology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
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 514	(3)	Neurobiology Learning and Memory



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
BIOL 575	(3)	Human Biochemical Genetics
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
NEUR 310	(3)	Cellular Neurobiology

### 11.13.9.12 Bachelor of Science (B.Sc.) - Major Computer Science - Computer Games (67 credits)

This program is a specialization within Computer Science. It fulfils all the basic requirements of the Major Computer Science. Complementary courses focus on topics that are important to understanding the technology behind computer games and to gaining experience in software development and design needed for computer game development.

Students may complete this program with a minimum of 62 credits or a maximum of 67 credits depending if they are exempt from taking COMP 202 and their choice of complementary courses.

#### Required Courses (50 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.

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 308	(1)	Computer Systems Lab
COMP 310	(3)	Operating Systems
COMP 322	(1)	Introduction to C++
COMP 330	(3)	Theory of Computation
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 557	(3)	Fundamentals of Computer Graphics
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures
MATH 323	(3)	Probability

#### Complementary Courses (17 credits)

Students complete a minimum of 15 or a maximum of 17 complementary credits selected as follows:

3 credits selected from:

COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

6-8 credits selected from:

COMP 424	(3)	Artificial Intelligence
COMP 521	(4)	Modern Computer Games
COMP 522	(4)	Modelling and Simulation
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
COMP 551	(4)	Applied Machine Learning
COMP 559	(4)	Fundamentals of Computer Animation

6 credits selected from:

COMP 409	(3)	Concurrent Programming
COMP 421	(3)	Database Systems
COMP 535	(3)	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**

36-39 credits

\* Students who have sufficient knowledge in a programming language do not need to take COMP 202.

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 310	(3)	Operating Systems
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
ECSE 429	(3)	Software Validation
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

#### **Complementary Courses (24 credits)**

9 credits selected from Groups A and B, with at least 3 credits selected from each:

15 credits selected from Groups C and D, with at least 9 credits selected from Group C, and at least 3 credits selected from Group D.

**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
ECSE 437	(3)	Software Delivery
ECSE 539	(4)	Advanced Software Language Engineering

**Group D: Applications**

COMP 350	(3)	Numerical Computing
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 512	(4)	Distributed Systems
COMP 520	(4)	Compiler Design
COMP 521	(4)	Modern Computer Games
COMP 522	(4)	Modelling and Simulation
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

**11.13.9.14 Bachelor of Science (B.Sc.) - Honours Computer Science (75 credits)**

Students may complete this program with a minimum of 72 credits or a maximum of 75 credits depending if they are ex

\* Students who have sufficient knowledge in a programming language do not need to take COMP 202.

\*\* Students take either MATH 340 or MATH 350.

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 303	(3)	Software Design
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 362	(3)	Honours Algorithm Design
COMP 400	(3)	Project in Computer Science
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures
MATH 340**	(3)	Discrete Structures 2
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
		Linear Algebra

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design
COMP 361D1^	(3)	Software Engineering Project
COMP 361D2^	(3)	Software Engineering Project

All COMP courses at the 400 level or above except COMP 400, 401, 402, 462, 561.

\*\*\* Students with credit for COMP 251 cannot take COMP 252, and must instead include at least 6 credits at the 400-level or above, 3 credits of which must be at the 500-level.

^ Students must take both COMP 361D1 and COMP 361D2 or neither.

### Biology Block

9-12 credits from the following, with 3-6 credits at the 400 level or above:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 308	(3)	Ecological Dynamics
BIOL 309	(3)	Mathematical Models in Biology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Oncogenes
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 514	(3)	Neurobiology Learning and Memory
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
BIOL 575	(3)	Human Biochemical Genetics
BIOL 580	(3)	Genetic Approaches to Neural Systems

BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
NEUR 310	(3)	Cellular Neurobiology

**Bachelor of Science (B.Sc.) - Honour**





### **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 planets like

## Associate Professors

Galen Halverson; B.A.(Mont.), M.A., Ph.D.(Harv.) (*T.H. Clark Chair in Sedimentary and Petroleum Geology*)

Yajing Liu; B.Sc.(Peking), Ph.D.(Harv.)

Jeffrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)

Jeanne Paquette; B.Sc., M.Sc.(McG.), Ph.D.(Stonybrook)

Christie Rowe; A.B.(Smith), Ph.D.(Calif.-Santa Cruz) (



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 542	(3)	Chemical Oceanography
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
	(3)	Selected Topics 3



provide an excellent preparation for graduate work in the earth sciences but offers enough flexibility to prepare for a wide range of careers in industry and teaching.

### Required Courses (42 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 240	(3)	Geology in the Field
EPSC 303	(3)	Structural Geology
EPSC 320	(3)	Elementary Earth Physics
EPSC 340	(3)	Earth and Planetary Inference
EPSC 480D1	(3)	Honours Research Thesis
EPSC 480D2	(3)	Honours Research Thesis
MATH 222	(3)	Calculus 3
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

### 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 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 580	(3)	Aqueous Geochemistry
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 510	(3)	Geodynamics
EPSC 520	(3)	Earthquake Physics and Geology
EPSC 530	(3)	Volcanology
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology
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 undergraduate studies, when they meet the academic requirements of professional orders in most Canadian provinces.

#### **11.13.10.10 Bachelor of Science (B.Sc.) - Honours Planetary Sciences (78 credits)**

The program curriculum is designed to provide a rigorous foundation in physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is intended to provide an excellent preparation for graduate work in the earth and planetary sciences.

Note: Honours students must maintain a CGPA equal to or greater than 3.20.

#### **Required Courses (66 credits)**

Introductory Mineralogy(

y

### Complementary Courses (12 credits)

3 credits from:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

plus 9 credits (three courses) chosen from the following:

Note: Courses at the 300 level or higher 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 425	(3)	Sediments to Sequences
EPSC 445	(3)	Metamorphic Petrology
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 520	(3)	Earthquake Physics and Geology
EPSC 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Processes of Igneous Petrology
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 580	(3)	Aqueous Geochemistry
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](mailto: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](mailto: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](mailto:william.minarik@mcgill.ca)  
 Website: [www.ess.mcgill.ca](http://www.ess.mcgill.ca)

### 11.13.11. 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.

- 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 (AOC), 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. 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 (AOC)

Earth and Planetary Sciences (EPSC)

Geography (GEOG)

#### Required Courses (12 credits)

ESYS 200	(3)	Earth System Processes
ESYS 300	Earth System Modelling (3)	ESYS 300 Earth System Modelling (3)
ESYS 300	Earth System Modelling (3)	ESYS 300 Earth System Modelling (3)
ESYS 500		ESYS 500 Earth System Applications (3)

#### Complementary Courses (6 credits)

Two courses from 2 of 3 ESYS Departments (EPSC, AOC, or GEOG), 300 level or higher in consultation with the ESS student adviser

### 11.13.11. Bachelor of Science (B.Sc.) - Major Earth System Science (57 credits)

The Major in Earth System Science (ESYS) is offered jointly by the following departments:

Atmospheric and Oceanic Sciences (AOC)

Earth and Planetary Sciences (EPSC)

Geography (GEOG) Earth System Science (ESYS) views Earth as a single integrated system that provides a unifying context to examine the interrelationships

components of the Earth system. The approach concentrates on the nature of linkages among the biological, chemical, human, and physical systems of the Earth. Earth System Science primarily involves studying the cycling of matter and energy through the atmosphere, biosphere, cryosphere, and hydrosphere.

and hydrosphere. It examines the dynamics and interrelationships among these processes at time scales that range from billions of years to days, and seeks to understand how these interrelationships have changed over time.

### Required Courses (24 credits)

COMP 202	(3)	Foundations of Programming
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 500	(3)	Earth System Applications
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3

### Complementary Courses (33 credits)

One of the following two courses:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 219	(3)	Introduction to Atmospheric Chemistry

One of the following two courses:

EPSC 210	(3)	Introductory Mineralogy
EPSC 220	(3)	Principles of Geochemistry

One of the following two courses:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 308	(3)	Principles of Remote Sensing

One of the following two courses:

ENVR 200	(3)	The Global Environment
GEOG 203	(3)	Environmental Systems

One of the following two courses:

BIOL 215	(3)	Introduction to Ecology and Evolution
ENVR 202	(3)	The Evolving Earth

One of the following courses:

ANTH 339	(3)	Ecological Anthropology
GEOG 217	(3)	Cities in the Modern World
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 310	(3)	Development and Livelihoods

GEOG 382	(3)	Principles Earth Citizenship
GEOG 406	(3)	Human Dimensions of Climate Change

15 credits from the following course list, with at least 3 credits from each of subject codes ATOC, EPSC, and GEOG. At least 9 of the 15 credits must be at the 400 level or higher.

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of an academic adviser. Please see the list posted on the Departmental web page.

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
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
BIOL 573	(3)	Vertebrate Palaeontology Field Course
BREE 217	(3)	Hydrology and Water Resources
BREE 319	(3)	Engineering Mathematics
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 515	(3)	Soil Hydrologic Modelling
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 530	(3)	Volcanology
EPSC 542	(3)	Chemical Oceanography
EPSC 549	(3)	Hydrogeology
	(3)	Ore-forming Processes

MATH 525	(4)	Sampling Theory and Applications
NRSC 540	(3)	Socio-Cultural Issues in Water
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432	(3)	Physics of Fluids

\* MATH 315 is a required course for the B.Sc. Honours Earth System Science.

#### **11.13.11.5 Bachelor of Science (B.Sc.) - Honours Earth System Science (66 credits)**

The Honours in Earth System Science (ESYS) is offered jointly by the following departments:

Atmospheric and Oceanic Sciences (ATOC)

Earth and Planetary Sciences (EPSC)

Geography (GEOG)

A rigorous foundation in earth system science and the flexibility to create an individualized program in preparation for careers in industry, teaching, and research. It is also intended to provide an excellent preparation for graduate work in earth system science. A CGPA of 3.20 or higher is required for registration in and graduation from this program.

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPe grade pointm.

GEOG 308 (3) Principles of Remote Sensing

One of the following two courses:

ENVR 200 (3) The Global Environment

GEOG 203 (3) Environmental Systems

One of the following two courses:

BIOL 215 (3) Introduction to Ecology and Evolution

ENVR 202 (3) The Evolving Earth

One of the following courses:

ANTH 339 (3) Ecological Anthropology

GEOG 217 (3) Cities in the Modern World

GEOG 221 (3) Environment and Health

GEOG 300 (3) Human Ecology in Geography

GEOG 310 (3) Development and Livelihoods

GEOG 382 (3) Principles Earth Citizenship

GEOG 406 (3) Human Dimensions of Climate Change

15 credits from the following course list, with at least 3 credits from each of subject codes ATOC, EPSC, and GEOG. At least 9 of the 15 credits must be at the 400 level or higher.

Note: Courses at the 300 level or higher in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of an academic adviser. Please see the list posted on the Departmental web page.

ATOC 215 (3) Oceans, Weather and Climate

ATOC 309 (3) Weather Radars and Satellites

ATOC 315 (3) Thermodynamics and Convection

ATOC 512 (3) Atmospheric and Oceanic Dynamics

ATOC 513 (3) Waves and Stability

ATOC 515 (3) Turbulence in Atmosphere and Oceans

ATOC 519 (3) Advances in Chemistry of Atmosphere

ATOC 521 (3) Cloud Physics

ATOC 525 (3) Atmospheric Radiation

ATOC 530 (3) Paleoclimate Dynamics

ATOC 531 (3) Dynamics of Current Climates

ATOC 540 (3) Synoptic Meteorology 1

ATOC 541 (3) Synoptic Meteorology 2

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
BIOL 573	(3)	Vertebrate Palaeontology Field Course
BREE 217	(3)	Hydrology and Water Resources
BREE 319	(3)	Engineering Mathematics
BREE 509	(3)	Hydrologic Systems and Modelling
BREE 510	(3)	Watershed Systems Management
BREE 515	(3)	Soil Hydrologic Modelling
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 Palaeontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 341	(3)	Field School 3

GEOG 501	(3)	Modelling Environmental Systems
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
MATH 314	(3)	Advanced Calculus
MATH 315*	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Introduction to Partial Differential Equations
MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Regression and Analysis of Variance
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
NRSC 540	(3)	Socio-Cultural Issues in Water
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 432	(3)	Physics of Fluids

\* MATH 315 is a required course for the B.Sc. Honours Earth System Science.

## 11.13.12 Entrepreneurship for Science Students

### 11.13.12.1 About Entrepreneurship for Science Students

This Minor is geared toward Science students with an interest in entrepreneurship and key business topics. The set of six courses will introduce them to concepts and skills needed to effectively complement the technical expertise obtained. These concepts and skills form the basis of successful companies in the high technology sector, be they start-ups, small-, or medium-sized.

### 11.13.12.2 Bachelor of Science (B.Sc.) - Minor Entrepreneurship for Science Students (18 credits)

This Minor is a collaboration of the Faculty of Science and Desautels Faculty of Management and is designed to provide Science (B.Sc.) 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 interdisciplinary and integrative. Many courses in the Minor will address a mix of students from across multiple McGill faculties.

Students in this Minor are not permitted to take the Desautels Minors in Management, Marketing, Finance or Operations Management (for Non-Management students).

To obtain the Minor, all courses must be completed with a grade of C or better.

Advising note: Desautels Faculty of Management courses in this Minor have limited enrolment and include INTG 201, INTG 202, MGPO 362, MGPO 364, MGPO 438, and BUSA 465. For advising regarding Management courses, students should contact the Desautels Faculty of Management, B.Com. Office (see coordinates in the calendar notes). For advising regarding MIMM 387, see your adviser in the Science Office for Undergraduate Student Advising (SOUSA) in Dawson Hall.

### Required Courses (12 credits)



INTG 201	(3)	Integrated Management Essentials 1
INTG 202	(3)	Integrated Management Essentials 2
MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 364	(3)	Entrepreneurship in Practice

### Complementary Courses (6 credits)

Choose 6 credits from the following:

BUSA 465	(3)	Technological Entrepreneurship
MGPO 438	(3)	Social Entrepreneurship and Innovation
MIMM 387	(3)	The Business of Science

### 11.13.13 Environment

Science students who are interested in studying the environment should refer to [McGill 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)

#### 11.13.14.1 Location

Division of Experimental Medicine  
 Department of Medicine  
 1001 Decarie Boulevard  
 Montreal QC H4A 3J1  
 Canada  
 Telephone: 514-934-1934, ext. 34699 or 34700  
 Email: [experimental.medicine@mcgill.ca](mailto:experimental.medicine@mcgill.ca)  
 Website: [www.mcgill.ca/expmed](http://www.mcgill.ca/expmed)

#### 11.13.14.2 About Experimental Medicine

Experimental Medicine is a Division of the Department of Medicine. There are no B.Sc. programs in Experimental Medicine, but the EXMD courses listed below are considered as courses taught by the Faculty of Science.

#### Experimental Medicine Courses

EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
EXMD 509	(3)	Gastrointestinal Physiology and Pathology
EXMD 510	(3)	Bioanalytical Separation Methods
EXMD 511	(3)	Joint Venturing with Industry

### **11.13.15 Field Study**

For details about the available Field Study Semesters, see [Study Abroad & Field Studies](#) .

#### **11.13.15.1 Field Studies - Minor Field Studies (18 credits)**

Students participating in an

**Barbados Field Study Semester (15 credits)**

The Barbados Field Study Semester (BFSS) provides one term of integrated field study for students with an interest in global issues related to natural resource use as affected by socio-economic, management, urban, and physical constraints. Offered at the Bellairs Research Institute in Barbados, this program challenges students to be more effective environmental decision makers, policy makers, and managers. There is a growing need for professionals with such skills at all levels of government, within NGOs, and in the private sector. The overall goal of the BFSS is to equip future leaders to address the complexity of issues associated with the formulation and implementation of organizational strategies compatible with the societal goal of sustainable use and development of our natural resources.

The BFSS is intended for senior undergraduate students from across the University. Students must apply to participate in the program. Selection will be based on the student's Academic Standing and demonstrated interests and involvement in international issues related to natural resource use.

**Barbados Field Study Semester - Required Courses**

6 credits

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. BITS welcomes applications from senior undergraduate students from across the University.

**Barbados Interdisciplinary Tropical Studies Field Semester - Required Courses**

15 credits

AEBI 421	(3)	Tropical Horticultural Ecology
AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AEBI 427	(6)	Barbados Interdisciplinary Project

**Panama Field Study Semester (15 credits)**

This program is offered in Panama with the support of the Smithsonian Tropical Research Institute (STRI).

Hands-on experience is gained through research projects organized around multidisciplinary environmental issues. The nature of these projects will centre on practical environmental problems/questions important for Panama. Students will work with Panamanian institutions (NGO, governmental, or research).

There is a one- or two-day period of transition and 13 weeks of course attendance in Panama. Field trips will be integrated into each of the courses offered.

**Panama Field Study Semester - Required Courses**

9 credits

BIOL 553	(3)	Neotropical Environments
ENVR 451	(6)	Research in Panama

**Panama Field Study Semester - Complementary Courses**

6 credits

Complementary courses change from year to year. Students will register for the 6 credits offered the W

### **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 toward the Minor General Science.

#### **Geograph**

**Post-Retirement**

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

**Professors**

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

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

T.R. Moore; Ph.D.(Aberd.), F.R.S.C.

W.H. Pollard; M.A.(Guelph), Ph.D.(Ott.)

N.A. Ross; M.A.(Qu.), Ph.D.(McM.)

N.T. Roulet; M.Sc.(Trent), Ph.D.(McM.) (*James McGill Professor*)

S. Turner; M.Soc.Sc.(Waikato, N.Z.), Ph.D.(Hull)

G.W. Wenzel; M.A.(Manit.), Ph.D.(McG.)

**Associate Professors**

S. Breau; M.A.(Laval), Ph.D.(Calif.-LA)

G.L. Chmura; M.Sc.(Rhode Is.), Ph.D.(Louis. St.)

B. Forest; A.B.(Chic.), Ph.D.(Calif.-LA)

M. Kalacska; M.Sc., Ph.D.(Alta.)

M.F. Lapointe; M.Sc.(McG.), Ph.D.(Br. Col.)

B. Lehner; M.Sc.(Freiburg), Ph.D.(Frankfurt)

T.C. Meredith; M.Sc., Dip.Cons.(Lond.), Ph.D.(Camb.)

N. Oswin; M.A.(Dal.), Ph.D.(Br. Col.)

B. Robinson; B.Sc.(Georgia Tech.), M.Eng., MCP(MIT), Ph.D.(Wisc. Madison)

R. Sengupta; M.Sc., Ph.D.(Ill.) (*joint appt. with McGill School of Environment*)

R. Sieber; M.P.A.(W. Mich.), Ph.D.(Rutg.) (*joint appt. with McGill School of Environment*)

I.B. Strachan; B.Sc.(Tor.), M.Sc., Ph.D.(Qu.) (*cross appt. with Natural Resource Sciences*)

J. Unruh; M.S.(Wisc. Madison), Ph.D.(Ariz.)

**Assistant Professors**

Y. le Polain de Waroux; Ph.D.(Louvain)

G. MacDonald; M.Sc., Ph.D.(McG.)

K. Manaugh; Ph.D.(McG.)

G. McKenzie; B.A.(Br. Col.), M.Sc.A.(Melb.), Ph.D.(Calif., Santa Barbara)

S. Moser; Ph.D.(NUS)

M. Riva; M.Sc., Ph.D.(Montr.) (*joint appt. with the Institute for Health and Social Policy*)

C. von Sperber; Ph.D.(ETH Zurich)

**Adjunct Professor**

J. Ford; Ph.D.(Guelph)

G. Leblanc; Ph.D.(Mc.M.)

J. Wu; Ph.D.(McG.)

**11.13.17.5 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.

### 11.13.17.6 Bachelor of Science (B.Sc.) - Minor Geographic Information Systems and Remote Sensing (18 credits)

The Geographic Information Systems (GIS) and Remote Sensing Minor program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

### Required Courses (6 credits)

COMP 202	(3)	Foundations of Programming
GEOG 201	(3)	Introductory Geo-Information Science

### Complementary Courses (12 credits)

3 credits selected from:

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS

6 credits selected from:

GEOG 308	(3)	Principles of Remote Sensing
GEOG 384*	(3)	Principles of Geospatial Web
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

3 credits selected from:

ANTH 511	(3)	Computational Approaches to Prehistory
ATOC 309	(3)	Weather Radars and Satellites
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System
GEOG 306*	(3)	Raster Geo-Information Science
GEOG 307*	(3)	Socioeconomic Applications of GIS





GEOG 384

(3)

Principles of Geospatial Web

3 or 6 credits (In Environment, Earth System and Sustainability Sciences)

**11.13.17.8 Bachelor of Science (B.Sc.) - Major Geography (58 credits)**

The BSc Major in Geography provides students with strong training in the theory and tools of physical geography. Students will explore the science of how  
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GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 384	(3)	Principles of Geospatial Web

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
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 an

**Bachelor of Science (B.Sc.) - Honours Geograph**

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 300 level environmental analysis/techniques

GEOG 306	(3)	Raster Geo-Information Science
GEOG 307	(3)	Socioeconomic Applications of GIS
GEOG 308	(3)	Principles of Remote Sensing
GEOG 384	(3)	Principles of Geospatial Web

6 or 9 credits (In Environment, Earth Science 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

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

**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 [www.mcgill.ca/pfss](http://www.mcgill.ca/pfss).

**Arctic Field Stud**

Dr. C. Piccirillo  
Microbiology and Immunology  
McGill University Health Centre – Glen Site  
1001 Decarie Boulevard, Bloc E, Office EM23248  
Montreal QC H3G 1A4  
Telephone: 514-934-1934, ext. 76143  
Email: [ciro.piccirillo@mcgill.ca](mailto:ciro.piccirillo@mcgill.ca).

**Bachelor of Science (B.Sc.) - Honours Immunology (Interdepartmental) (75 credits)**

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)	Biology of Organisms
BIOL 304	(3)	Evolution
CHEM 203**	(3)	Survey of Physical Chemistry
CHEM 204**	(3)	Physical Chemistry/Biological Sciences 1
COMP 204	(3)	Computer Programming for Life Sciences
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

\* BIOC 220 and BIOC 320, or

\*\* MIMM 384 and MIMM 385, or

\*\*\* PHGY 212 and PHGY 213 and BIOL 301

BIOC 220*	(3)	Laboratory Methods in Biochemistry and Molecular Biology 1
BIOC 320*	(3)	Laboratory Methods in Biochemistry and Molecular Biology 2
BIOL 301***	(4)	Cell and Molecular Laboratory
MIMM 384**	(3)	Molecular Microbiology Laboratory
MIMM 385**	(3)	Laboratory in Immunology
PHGY 212***	(1)	Introductory Physiology Laboratory 1
PHGY 213***	(1)	Introductory Physiology Laboratory 2

plus 6 credits, selected from:

\* Students take either BIOL 309 or MATH 315, but not both.

ANAT 365	(3)	Cellular Trafficking
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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](mailto:ryan.bouma@mcgill.ca)

#### **11.13.19.2 About the Interdisciplinary Life Sciences Minor**

The Interdisciplinary Life Sciences Minor allows students to obtain e

## Molecular Mechanisms of Cell Function

## Introductory Beha

\* 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.

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 Science.

PHGY 210 (3) Mammalian Physiology 2

**Complementary Courses (9 credits)**

9 credits, three of the following courses:

EDKP 330	(3)	Physical Activity and 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)	Exercise Pathophysiology 2
EDKP 485	(3)	Exercise Pathophysiology 1
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



\*\* 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.



MGSC 373 (3) Operations Research 1

### Complementary Courses (12 credits)

3 credits

MGCR 271\* (3) Business Statistics

9 credits selected from:

MGSC 372	(3)	Advanced Business Statistics
MGSC 402	(3)	Operations Strategy
MGSC 403	(3)	Introduction to Logistics Management
MGSC 405	(3)	Quality Management
MGSC 415	(3)	Supplier Management
MGSC 431	(3)	Operations and Supply Chain Analysis
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
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 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.

## 11.13.22 Mathematics and Statistics (MATH)

### 11.13.22.1 Location

Burnside Hall, Room 1005  
805 Sherbrooke Street West  
Montreal QC H3A 0B9  
Telephone: 514-398-3800  
Website: [www.mcgill.ca/mathstat](http://www.mcgill.ca/mathstat)

### 11.13.22.2 About Mathematics and Statistics

Mathematics and statistics are omnipresent in today's world of information and technology. Their theories, models, and methods are integral to the way we analyze, understand, and build the world around us. They play a key role in nearly every effort to push the boundaries of science, engineering, medicine, and social sciences and contribute, in a major way, to solving some of the most pressing human, environmental, and economic problems of our time.

The Department of Mathematics and Statistics is one of the oldest and most distinguished of its kind in Canada. It is home to active, internationally acclaimed, and award-winning researchers in the three principal subdisciplines in the mathematical sciences.

**Pure mathematics** is concerned with abstract structures and concepts mainly with respect to their intrinsic and technical nature, although many areas in pure mathematics have developed from questions in science and technology. Core areas of expertise in pure mathematics include algebra, analysis, geometry, number theory, and topology.

**Applied mathematics** develops and utilizes advanced mathematical methods to solve problems in a broad range of applications in science, technology, engineering, computer science, and business. Core areas of expertise in applied mathematics include discrete mathematics, game theory, graph theory, mathematical physics, numerical analysis, optimization, and probability.

**Statistics** is motivated by the need to extract information from data, to quantify uncertainty, and to make predictions about random phenomena. To do this effectively, sophisticated mathematical and probabilistic techniques and computational tools are needed. Core areas of expertise include Bayesian inference, biostatistics, computational statistics, high-dimensional data modeling, multivariate analysis, and survival analysis.

### 11.13.22.3 Undergraduate Program Options

Our programs provide a broad and solid mathematical and statistical education that paves the way to many interesting career options in academia, government, and industry. Top students typically get admitted to prestigious graduate schools around the world and often become leaders in their areas of research in academic or industrial settings. Our graduates at all levels are in high demand in government departments, health research centers, banks, insurance and pharmaceutical companies, statistical agencies, and multinational high-technology industries.

There are two popular undergraduate streams. The **Honours** programs in mathematics, applied mathematics and probability/statistics (including **Joint Honours** with Physics or Computer Science) are at an advanced level for students who wish to specialize their studies in the mathematical sciences. The Honours stream is well suited for students who intend to move on to graduate school and essential for those who are envisaging research careers in the mathematical sciences. The **Major** versions are less intense and leave room for a **Minor** or a second Major concentration in another discipline. The Major stream is particularly suited for students whose future creative activity will involve mathematics or statistics and its applications in another area. Several **Joint Major** programs and a **Liberal** program are also available.

Furthermore, the Desautels Faculty of Management offers the B.Com. degree with a Major in Mathematics.

Students considering programs in Mathematics and Statistics are encouraged to [contact the Department of Mathematics and Statistics](#) to arrange for academic advising.

### 11.13.22.4 Research Opportunities

During their undergraduate degree, students in the Department of Mathematics and Statistics are encouraged to engage in research. The two main opportunities are:

- Funded summer research projects allowing students to engage in state-of-the art research with faculty members
- Opportunities for hands-on experience with data analysis offered through the [Statistical Consulting Service](#)

### 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.

For more information on these opportunities, consult [section 11.12: Science Internships and Field Studies](#).



**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

David A. Stephens

#### Graduate Program Director

Dmitry Jakobson

#### Emeritus Professors

William J. Anderson; B.Eng., Ph.D.(McG.)

Michael Barr; A.B., Ph.D.(Penn.) (*Peter Redpath Emeritus Professor of Pure Mathematics*)

William G. Brown; B.A.(Tor.), M.A.(Col.), Ph.D.(Tor.)

Marta Bunge; M.A., Ph.D.(Penn.)

Ian Connell; B.Sc., M.Sc.(Manit.), Ph.D.(McG.)

Kohur N. GowriSankaran; B.A., M.A.(Madr.), Ph.D.(Bom.)

Paul Koosis; B.A., Ph.D.(Calif., M(T)Tj B.A.,093s22.52 192.54 TmMakkaiarta Bunge; M.ABudh.D.(Penn.) (



## Assistant Professors

Sarah Harrison; B.Sc.(MIT), Ph.D.(Stan.) (*joint appt. with Physics*), (*Canada Research Chair*)

Tim Hoheisel; Dipl., Ph.D.(Wurzburg)

Jessica Lin; B.A.(NYU), Ph.D.(Chic.)

Michael Lipnowski; B.Sc. (Waterloo), Ph.D. (Stanford)

Piotr Przytycki; M.Sc., Ph.D.(Warsaw)

Brent Pym; B.ScE (Queens), M.Sc., Ph.D. (Toronto)

Marcin Sabok; M.Sc., Ph.D.(Warsaw)

Jérôme Vétois; Ph.D.(Cergy-Pontoise)

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### Senior Faculty Lecturer

Axel Hundemer; M.Sc., Ph.D.(Munich)

Armel Djivede Kelome; M.Sc.(Benin), M.Sc.(McG.), Ph.D.(Georgia Tech.)

### Faculty Lecturers

José A. Correa; M.Sc.(Wat.), Ph.D.(Car.)

Jérôme Fortier; B.Sc., M.Sc.(Laval), Ph.D.(UQAM)

Jeremy Macdonald; B.Sc., M.Sc.(Alberta), Ph.D.(McG.)

Sidney Trudeau; Ph.D.(McG.)

### 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 departments.

Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program. However, with an approved choice of substantial courses, the overlap restriction may be relaxed to 9 credits for students whose primary program requires 60 credits or more, and to 12 credits when the primary program requires 72 credits or more.

### Required Courses (9 credits)

\* MATH 223 may be replaced by MATH 235 and MA

CHEM 593	(3)	Statistical Mechanics
GEOG 351	(3)	Quantitative Methods
MATH 208	(3)	Introduction to Statistical Computing
MATH 427	(3)	Statistical Quality Control
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**

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 Structures 2

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 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
MATH 417	(3)	Linear Optimization
MATH 423	(3)	Regression and Analysis of Variance
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models

Nonparametric e 18 credits to be selected fr-17.721 Tm(M70.52 186.2m0 1 2lu 82.67 C2 f-17.721 Tm(M70.52 18 0 0 1

This program provides training in statistics, with a solid mathematical core, and basic training in computing. With strong performance in an appropriate selection of courses, this program can lead to "A.Stat." professional accreditation from the Statistical Society of Canada, which is regarded as the entry level requirement for Statisticians practising in Canada.

Students may complete this program with a minimum of 45 credits or a maximum of 48 credits depending on whether or not they are required to take MATH 203.

### **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.



MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Structures 2
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.

(3)	Communicating Science
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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)**

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 hav

MATH 417	(3)	Linear Optimization
MATH 423	(3)	Regression and Analysis of Variance
MATH 427	(3)	Statistical Quality Control
MATH 430	(3)	Mathematical Finance

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.

**11.132213 Bachelor of Science (B.Sc.) - Major Statistics and Computer Science (72 credits)**

This program provides students with a solid training in both computer science and statistics together with the necessary mathematical background. As statistical endeavours involve ever increasing amounts of data, some students may want training in both disciplines.

**Program Prerequisites**

Students entering the Joint Major 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 72 credits of required courses.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

**Required Courses (51 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.

\*\* Students take either COMP 350 or MATH 317, but not both.

\*\*\* Students take either MATH 223 or MATH 236, but not both.

Both courses are equivalent as prerequisites for required and complementary Computer Science courses listed below.

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 330	(3)	Theory of Computation
COMP 350**	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design
MATH 222	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra
MATH 235	(3)	Algebra 1
MATH 236***	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 314	(3)	Advanced Calculus
MATH 317**	(3)	Numerical Analysis
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Regression and Analysis of Variance

**Complementary Courses (21 credits)**

12 credits in Mathematics selected from:

\* Students take either MATH 340 or MATH 350, but not both.

\*\* MATH 578 and COMP 540 cannot both be taken for program credit.

MATH 208	(3)	Introduction to Statistical Computing
MATH 327	(3)	Matrix Numerical Analysis
MATH 340*	(3)	Discrete Structures 2
MATH 350*	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 410	(3)	Majors Project
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 545	(4)	Introduction to Time Series Analysis
MATH 578**	(4)	Numerical Analysis 1
MATH 594	(4)	Topics in Mathematics and Statistics

9 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 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 (except COMP 396) and ECSE 508.

### **11.132214 Bachelor of Science (B.Sc.) - Honours Applied Mathematics (63 credits)**

#### **Revision, May 2019. Start of revision.**

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

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 MA

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 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 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.

**Revision, May 2019. End of revision.**

### **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.

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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 150/1151 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	(0)	
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 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:





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)	Honours 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, 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
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 358+	(0)	
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

Honours Independent Study

## ATE PROGRAMS, COURSES AND UNIVERSITY REGULATIONS

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)	Honours 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

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 545	(4)	Introduction to Time Series Analysis
MATH 578**	(4)	Numerical Analysis 1
MATH 587	(4)	Advanced Probability Theory 1
MATH 594	(0)	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**	(3)	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)

**Revision, April 2019. Start of revision.**

Students may complete this program with a minimum of 72 credits or a maximum of 78 credits depending if they are exempt from COMP 202/204/208 and/or MATH 222.

#### Program Prerequisites

Students must consult an Honours adviser in both departments to ensure that they have sufficient background to enter the program. The minimum requirements are the following courses or their equivalencies:

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.

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.



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.

**Revision, April 2019. End of revision.**

### **11.132219 Mathematics and Statistics (MATH) Related Programs**

#### **11.1322191 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 \(76 credits\)](#).

#### **11.1322192 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 \(79 credits\)](#).

#### **11.1322193 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)**

### **11.13.23.1 Location**

Lyman Duff Medical Sciences Building, Room 511  
3775 University Street  
Montreal QC H3A 2B4  
Telephone: 514-398-3915  
Fax: 514-398-7052  
Email: [undergrad.microimm@mcgill.ca](mailto:undergrad.microimm@mcgill.ca)  
Website: [www.mcgill.ca/microimm](http://www.mcgill.ca/microimm)

### **11.13.23.2 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, 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 microorgg micf 0 1 387.622 310.041 Tm(g041 Tselm5 aryo 1 80.42 339.201 Tm(Mi

An online undergraduate handbook, containing course and program information and information on careers in microbiology and immunology is available on our [website](#).

All new students should attend a departmental **orientation/advising session** in August. Please check [www.mcgill.ca/microimm/undergraduate-programs/resources-and-services/advising](http://www.mcgill.ca/microimm/undergraduate-programs/resources-and-services/advising) for dates.

### **11.13.23.3 Microbiology and Immunology Faculty**

#### **Interim Chair**

G. Matlashewski

#### **Emeritus Professors**

N. Acheson, M. Baines, J.W. Coulton

#### **Professors**

J. Archambault; Ph.D.(Tor.)

A. Berghuis; M.Sc.(Rijks Univ. Groningen), Ph.D.(Br. Col.)

G.J. Matlashewski; B.Sc.(C'dia), Ph.D.(Ohio)

R.A. Murgita; B.Sc.(Maine), M.S.(Vermont), Ph.D.(McG.)

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

C. Piccirillo; B.Sc., Ph.D.(McG.)

D. Sheppard; M.D.(Tor.)

M. Stevenson; M.Sc., Ph.D.(Cathol52 68),7 70.52 485.02Cn.(McGiUtudeTj1 0 0 1 70Aningen), Ph.D.(Br



**Adjunct Professors**

A. Bar-Or  
 E. Cohen  
 A. Descoteaux  
 J.M. Di Noia  
 E. Emani  
 A. Finzi  
 N. Grandvaux  
 G. Kukolj  
 P. Lau  
 S. Lesage  
 S.L. Liu  
 J. Madrenas  
 R. Mouth  
 C. Paradis-Bleau  
 A. Petronela  
 K. Pike  
 W-K. Suh  
 S. Tran

**11.13.23.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Microbiology and Immunology (50 credits)****U1 Required Courses (19 credits)**

\* Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
CHEM 212*	(4)	Introductory Organic Chemistry 1
MIMM 211	(3)	Introductory Microbiology
MIMM 212	(3)	Laboratory in Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity

**U1 Complementary Course (3 credits)**

3 credits, select one from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

**U1, U2, or U3 Required Course (3 credits)**

3 credits, select one from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

**U2 Required Courses (16 credits)**



MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 496D1	(3)	Microbiology Advanced Research Project
MIMM 496D2	(3)	Microbiology Advanced Research Project
MIMM 497D1	(3)	Immunology Advanced Research Project
MIMM 497D2	(3)	Immunology Advanced Research Project
MIMM 509	(3)	Inflammatory Processes
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

### 11.13.23.5 Bachelor of Science (B.Sc.) - Major Microbiology and Immunology (66 credits)

The Major program is designed for students who want to acquire a substantial background in microbiology and immunology and related disciplines (chemistry, biology, biochemistry) which will prepare them for professional schools, graduate education, or entry into jobs in industry or research institutes.

#### U1 Required Courses (26 credits)

\* Students who have taken CHEM 212 in CEGEP are exempt and must replace these credits with an elective course(s).

\*\* Students who have taken CHEM 222 in CEGEP are exempt and must replace these credits with an elective course(s).

BIOL 200	(3)	Molecular Biology
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 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 384	(3)	Molecular Microbiology Laboratory
MIMM 385	(3)	Laboratory in Immunology

### U3 Required Courses (15 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

\* Students take either MIMM 501D1 and MIMM 501D2 OR MIMM 502D1 and MIMM 502D2.

### 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 Course (3 credits)

3 credits selected from:

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 309	(3)	Mathematical Models in Biology
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
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 496D1	(3)	Microbiology Advanced Research Project
MIMM 496D2	(3)	Microbiology Advanced Research Project
MIMM 497D1	(3)	Immunology Advanced Research Project

MIMM 497D2	(3)	Immunology Advanced Research Project
MIMM 509	(3)	Inflammatory Processes
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
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](mailto:monroe.cohen@mcgill.ca)

OR

Dr. Ciro Piccirillo  
 Department of Microbiology and Immunology  
 McGill 1 0 0 1 265.382 725.56 Tm(Adv)Tj.693 434.68 Tm(McGill 1 0 0 1 26j.693 434.68 1 434(ysiology)Tj1 0 0 1 81.693 51m-hrrsity Health C.68re, GlepaSite5.

## Advisers (B.A./B.Sc. Music programs)

Email: [adelina.lameiras@mcgill.ca](mailto:adelina.lameiras@mcgill.ca)

Diana Toni Dutz; B.Mus.(W. Ont.), Grad.Dip.(C'dia)

Telephone: 514-398-6337

Email: [dino.dutz@mcgill.ca](mailto:dino.dutz@mcgill.ca)

### 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

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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 psychology, computer science, and artificial intelligence. In addition, scientists are investigating the nervous system of many different animals, from simple invertebrates to humans. These wide-ranging investigations are providing a clearer understanding of how neurons work; how they communicate with one another; how they are organized into local or distributed networks; how the connections between neurons are established and change with experience; and how neuronal function is influenced by pharmacological agents and during disease states. As a result, we are gaining deeper insights into the neural basis of mental activity, as well as developing new therapeutic approaches to alleviate neurological and psychological diseases.



**Please note:** New students are required to attend an information session held at the end of August. Please consult the [Neuroscience website](#) in early August for the date and location.

### **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](mailto:ryan.bouma@mcgill.ca); Office: Dawson Hall, Rm, 2 .249 611.253

PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

6-15 credits from the following list of 400- and 500-level courses:

\*\*\* Students may select either BIOL 514 or PSYC 514.

BIOL 514***	(3)	Neurobiology Learning and Memory
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
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
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 501	(3)	Auditory Perception
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514***	(3)	Neurobiology of Learning and Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 505	(3)	Neurobiology of Schizophrenia

**Bachelor of Science (B.Sc.) - Major Neur**

\* Students complete one of MATH 139, MATH 140 OR MATH 150.

\*\* Students complete one of either MATH 141 OR MATH 151.

\*\*\* Students complete one of either PHYS 101 OR PHYS 131.

+++ Students complete one of either PHYS 102 OR PHYS 142.

BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 139*	(4)	Calculus 1 with Precalculus
MATH 140*	(3)	Calculus 1
MATH 141**	(4)	Calculus 2
MATH 150*	(4)	Calculus A

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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 from:

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
MATH 223	(3)	Linear Algebra

**C. Cognitive/Beha**

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
		Beha

(3) Topics in Radionuclide Imaging





BIOL 389	(3)	Laboratory in Neurobiology
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 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:

\*\* Students may take either BIOL 514 OR PSYC 514, but not both.

BIOL 514**	(3)	Neurobiology Learning and Memory
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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 Learning and 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

in normal and abnormal conditions, and studies may be conducted from a structural, biochemical or functional perspective at any level, from the intact organism down to specific components of the individual cell. There are no B.Sc. programs in Pathology, students who are interested in studying pathology can apply for Master or Ph.D program. For more information on Pathology programs please visit [www.mcgill.ca/pathology/programs/programs](http://www.mcgill.ca/pathology/programs/programs). Please note that the undergraduate course PATH 300 *Human Disease* is considered as taught by the Faculty of Science.

## 11.13.29 Pharmacology and Therapeutics (PHAR)

### 11.13.29.1 Location

McIntyre Medical Building, Room 1325  
3655 Promenade Sir-William-Osler  
Montreal QC H3G 1Y6  
Telephone: 514-398-3623  
Website: [www.mcgill.ca/pharma](http://www.mcgill.ca/pharma)

### 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, it is evident that pharmacology is a very extensive subject.

Pharmacology is a multidisciplinary science. It has developed its own set of principles and methods to study the mode of the action of drugs, but it has also utilized many techniques and approaches from various disciplines including biochemistry, physiology, anatomy, and molecular biology, as well as others. Pharmacology encompasses a number of different areas such as:

- pharmacogenomics;
- molecular biology;
- bioinformatics;
- neuropharmacology;
-



**Adjunct Professors**

Greg FitzHarris; Ph.D. (UCL; UK)

Jean-Sebastien Joyal; M.D., Ph.D.(McG.)

Thomas Sanderson; Ph.D.(Br. Col.)

**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.)

Karen Meerovitch; Ph.D.(McG.)

**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.

Students should declare their intent to enter the Minor in Pharmacology at the beginning of their U2 year. They must consult with, and obtain the approval of, the Coordinator for the Minor Program in the Department of Pharmacology and Therapeutics. Please contact the Student Affairs Coordinator: Chantal Grignon (undergradstudies.pharmacology@mcgill.ca; 514-398-3622).

All courses in the Minor program must be passed with a minimum grade C or better. Generally, no more than 6 credits of overlap are permitted between the Minor and the primary program.

**Required Courses (6 credits)**

PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease

**Complementary Courses (18 credits)**

18 credits selected as follows:

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

3 credits from:

PHAR 503	(3)	Drug Discovery and Development 1
PHAR 505	(3)	Structural Pharmacology

3 credits from:

PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology

6 credits from:

PHAR 303	(3)	Principles of Toxicology
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 599	(6)	Pharmacology Research Project

### 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:

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 Oncogenes
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
		Physical Or



Adv

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

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 Oncogenes
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

Note: \* Students may take either ANAT 458 or BIOC 458

\*\* Access to these courses is not guaranteed

\*\*\* Open to students who have the Pre-requisites

+ Access to these courses is not guaranteed. Open to students who have the Pre-requisites

### 11.13.30 Physics (PHYS)

#### 11.13.30.1 Location

Rutherford Physics Building, Room 108  
3600 University Street  
Montreal QC H3A 2T8  
Telephone: 514-398-6477  
Fax: 514-398-8434  
Email: [chairsec.physics@mcgill.ca](mailto:chairsec.physics@mcgill.ca)  
Website: [www.physics.mcgill.ca](http://www.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 in space and time from subnuclear particles to the universe itself. The subfields of physics such as mechanics, thermodynamics, electricity, atomic physics, and quantum mechanics, to mention but a few, permeate all other scientific disciplines. People trained in physics are employed in industry, government, and educational systems where they find many challenges as teachers, researchers, administrators, and in the rapidly developing area of scientific business.

The two main undergraduate programs in physics at McGill are the Honours and the Major. The **Honours** program is highly specialized and the courses are very demanding. This program is appropriate for students who wish to make an in-depth study of the subject in preparation for graduate work and an academic or professional career in physics. The three multidisciplinary honours programs—in Mathematics and Physics, in Physics and Chemistry

### **11.13.30.3 Internship Year in Science (IYS)**

IYS is a pregraduate work experience program available to eligible students and is a requirement for students in the following programs: 148.289 717.4634(v)TIU e

## Professors

M. Dobbs; B.Sc.(McG.), Ph.D.(Vic., BC)  
C. Gale; B.Sc.(Ott.), M.Sc., Ph.D.(McG.) (*James McGill Professor*)  
G. Gervais; B.Sc.(Sher.), M.Sc.(McM.), Ph.D.(N'western)  
M. Grant; B.Sc.(PEI), M.Sc., Ph.D.(Tor.), F.R.S.C. (*James McGill Professor*)  
P. Grütter; Dip., Ph.D.(Basel), F.R.S.C. (*James McGill Professor*)  
H. Guo; B.Sc.(Sichuan), M.Sc., Ph.D.(Pitt.), F.R.S.C. (*James McGill Professor*)  
D. Hanna; B.Sc.(McG.), A.M., Ph.D.(Harv.) (*Macdonald Professor of Physics*)  
S. Jeon; B.Sc.(Seoul National), M.Sc., Ph.D.(Wash.)  
V. Kaspi; B.Sc.(McG.), M.A., Ph.D.(Princ.), F.R.S.C. (*Canada Research Chair*) (*Lorne Trottier Chair in Astrophysics and Cosmology*)  
S. Lovejoy; B.Sc.(Camb.), Ph.D.(McG.)  
A. Maloney; B.S., M.S.(Stan.), Ph.D.(Harv.)  
N. Provas; Ph.D.(McG.) (*Canada Research Chair*)  
K. Ragan; B.Sc.(Alta.), Ph.D.(Geneva) (*Macdonald Professor of Physics*)  
D.H. Ryan; B.A., Ph.D.(Dub.)  
P. Wiseman; B.Sc.(St. FX), Ph.D.(W. Ont.) (*joint appt. with Chemistry*)

## Associate Professors

H. Cynthia Chiang; Ph.D. (Caltech)  
J. Childress; Ph.D.(Cornell) (*Canada Research Chair*)  
B. Coish; B.Sc.(Manit.), M.Sc.(McM.), Ph.D.(Basel)  
A. Cumming; B.A.(Camb.), Ph.D.(Calif., Berk.)  
K. Dasgupta; M.Sc., Ph.D.(TIFR)  
P. Francois; Ph.D.(Paris VII)  
M. Hilke; B.Sc., M.Sc., Ph.D.(Geneva)  
W. Reisner; B.A.(Reed), Ph.D.(Princ.)  
S. Robertson; B.Sc.(Calg.), M.Sc., Ph.D.(Vic., BC) (*Affiliated I.P.P. Scientist*)  
R. Rutledge; B.Sc.(USC), Ph.D.(MIT)  
J. Sievers; Ph.D.(Caltech)  
B. Siwick; B.A.Sc., M.Sc., Ph.D.(Tor.) (*Canada Research Chair*) (*joint appt. with Chemistry*)  
B. Vachon; B.Sc.(McG.), Ph.D.(Vic., BC)  
A. Warburton; B.Sc.(Vic., BC), M.Sc., Ph.D.(Tor.)  
T. Webb; B.Sc.(Tor.), M.Sc.(McM.), Ph.D.(Tor.)

## Assistant Professors

K. Agarwal; Ph.D. (Harv.)  
T. Brunner; Dip., Ph.D.(Munich)  
S. Caron-Huot; B.Sc.(Laval), M.Sc., Ph.D.(McGill)  
L. Childress; Ph.D.(Harv.) (*Canada Research Chair*)  
D. Cooke; Ph.D.(Alta.)  
N. Cowan; B.Sc.(McG.), Ph.D.(Wash.) (*joint appt. with Earth and Planetary Sciences*)  
D. Haggard; B.Sc.(USF), M.Sc., Ph.D.(Wash.)  
E. Lee; Ph.D. (Calif., Berk.)  
S. Leslie; Ph.D.(Calif., Berk.)



One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 214	(3)	Introductory Astrophysics
PHYS 224	(3)	Physics of Music
PHYS 228	(3)	Energy and the Environment
PHYS 260	(3)	Modern Physics and Relativity
PHYS 446	(3)	Majors Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

#### **11.13.30.7 Bachelor of Science (B.Sc.) - Minor Electrical Engineering (24 credits)**

[Program registration done by Student Affairs Office]

The Minor program does not carry professional recognition. Only students who satisfy the requirements of the Major Physics are eligible for this Minor. Students registered for this option cannot count PHYS 241 toward the requirements of the Major in Physics, and should replace this course by another Physics or Mathematics course. Students who select ECSE 334 in the Minor cannot count PHYS 328 toward the requirements of the Major in Physics, and should replace this course by another Physics or Mathematics course.

#### **Required Courses (12 credits)**

Quantum Ph      Electric Circuits 1



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 (36 credits)

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 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics

### Complementary Courses (9 credits)

9 credits selected from:

PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern Physics
PHYS 447	(3)	Applications of Quantum Mechanics

### 11.13.30.9 Bachelor of Science (B.Sc.) - Major Physics (60 credits)

#### 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:

It is possible for students to transfer from the Major to the Honours program after the U1 year if they have passed all U1 Required courses and MATH 314 and MATH 315 with a C or better, and obtained a GPA of 3.5 or better in these courses. The written permission of an adviser is required for this change of program.

Note: 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 foundational physics.

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
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 432	(3)	Physics of Fluids
PHYS 446	(3)	Majors Quantum Physics

### Complementary Courses (12 credits)

EPSC 350	(3)	Tectonics
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 482	(3)	Research in Earth and Planetary Sciences
EPSC 510	(3)	Geodynamics
EPSC 520	(3)	Earthquake Physics and Geology
EPSC 549	(3)	Hydrogeology
MATH 319	(3)	Introduction to Partial Differential Equations
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 449	(3)	Majors Research Project

**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
COMP 302	(3)	Programming Languages and Paradigms
COMP 350	(3)	Numerical Computing
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing

**U3 Required Courses (21 credits)**

COMP 360	(3)	Algorithm Design
MATH 323	(3)	Probability
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 446	(3)	Majors Quantum Physics
PHYS 489	(3)	Special Project

**11.1330.13 Bachelor of Science (B.Sc.) - Honours Physics (78 credits)**

Students entering this program for the first time should have high standing in mathematics and physics. In addition, a student who has not completed the equivalent of MATH 222 must take it in the first term without receiving credit toward the 78 credits required in the Honours program.

A student whose average in the required and complementary courses in any year falls below a GPA of 3.00, or whose grade in any individual required or complementary course falls below a C (unless it is improved to a C or higher in a supplementary examination or by retaking the course), may not register in the Honours program the following year, or graduate with the Honours degree, except with the permission of the Department.

**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 (27 credits)**

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 241	(3)	Signal Processing
PHYS 251	(3)	Honours Classical Mechanics 1
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 260	(3)	Modern Physics and Relativity

### U2 Required Courses (24 credits)

MATH 475	(3)	Honours Partial Differential Equations
PHYS 253	(3)	Thermal Physics
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 359	(3)	Honours Laboratory in Modern Physics 1
PHYS 362	(3)	Statistical Mechanics
PHYS 457	(3)	Honours Quantum Physics 2

### U3 Required Courses (6 credits)

PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 551	(3)	Quantum Theory

### U3 Complementary Courses (21 credits)

6 credits selected from:

Note: PHYS 459D1 and PHYS 459D2 are taken together.

PHYS 459D1	(3)	Honours Research Thesis
PHYS 459D2	(3)	Honours Research Thesis
PHYS 469	(3)	Honours Laboratory in Modern Physics 2
PHYS 479	(3)	Honours Research Project

15 credits selected from the list below (students may substitute one or more courses with any 3-credit course)



**11.1330.14 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 350	(3)	Honours Electricity and Magnetism
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 446	(3)	Majors Quantum Physics
PHYS 459D1	(3)	Honours Research Thesis
PHYS 459D2	(3)	Honours Research Thesis
PHYS 519	(3)	Advanced Biophysics

**Complementary Courses**

(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 351 | (3) | Honours Classical Mechanics 2 |

3 credits selected from:

- |          |     |  |
|----------|-----|--|
| PHYS 339 | (3) | Measurements Laboratory in General Physics |
| PHYS 359 | (3) | Honours Laboratory in Modern Physics 1     |

3 credits selected from:

- |          |     |   |
|----------|-----|---|
| CHEM 514 | (3) | Biophysical Chemistry                           |
| MATH 437 | (3) | Mathematical Methods in Biology<br>Analyzing Ph |

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.

MA (3) Linear Algebra and Geometry



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 (68 credits)

CHEM 212 (4) Introductory Organic Chemistry 1

CHEM 213 (3) Introductory Physical Chemistry 1: Thermodynamics

CHEM 273 (3) Introductory Physical Chemistry 2: Kinetics and Methods

CHEM 281 (3) Inorganic Chemistry 1

CHEM 355 (3) Applications of Quantum Chemistry

CHEM 365 (2) Statistical Thermodynamics

CHEM 493 (2) Advanced Physical Chemistry Laboratory

CHEM 556 (3) Advanced Quantum Mechanics

CHEM 574 (3) Introductory Polymer Chemistry

COMP 208 (3) Computer Programming for Physical Sciences and Engineering

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 241 (3) Signal Processing

PHYS 251 (3) Honours Classical Mechanics 1

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 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:

CHEM 480D1	(1.5)	Undergraduate Research Project 2
CHEM 480D2	(1.5)	Undergraduate Research Project 2
CHEM 531	(3)	Chemistry of Inorganic Materials
CHEM 575	(3)	Chemical Kinetics
CHEM 585	(3)	Colloid Chemistry
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 434	(3)	Optics
PHYS 469	(3)	Honours Laboratory in Modern Physics 2
PHYS 479	(3)	Honours Research Project
PHYS 562	(3)	Electromagnetic Theory

### 11.1330.17 Bachelor of Science (B.Sc.) - Honours Physics and Computer Science (81 credits)

\*\* NEW PROGRAM \*\*

This program provides essential background in physics and computer science at a level sufficient to pursue courses at the 400- and 500-level in either discipline. The program is intended to be flexible to allow students to take either more physics or more computer science courses at the advanced level.

Students entering this Joint Honours program should have high standing in mathematics, physics, and computer science. To continue in this Joint Honours program, an average GPA of 3.00 in required and complementary courses is required. For Honours standing, the CGPA at graduation must be at least 3.00; for First-Class Honours, the CGPA must be above 3.50.

Note: COMP 202—or an equivalent introduction to computer programming course—is a program prerequisite. U0 students may take COMP 202 as a Freshman Science course; new U1 students should take it as an elective in their first semester.

#### Required Courses (63 credits)

\*Note: A student who has not taken MATH 222 (or equivalent) prior to entering the program must take it in their first semester, increasing the program credits from 78 to 81. The student must then take MATH 314 in their second semester instead of MATH 248, if scheduling requires it.

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 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



Montreal QC H3G 1Y6  
Telephone: 514-398-4316  
Website: [www.mcgill.ca/physiology](http://www.mcgill.ca/physiology)

### **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;
- g



## **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), Ph.D.(Chic.) (*Rosenfeld Professor of Medicine*) (*joint appt. with Medicine*)

Kresimir Krnjec; O.C., B.Sc., Ph.D., M.B., Ch.B.(Edin.), F.R.S.C.

Wayne S. Lapp; M.S.A.(Tor.), Ph.D.(McG.)

Mortimer Le

### **Assistant Professors**

Judith Natalia Mandl; B.Sc.(Warw.), Ph.D.(Emory)

Anastasia Nijnik; M.Biochem., Ph.D.(Oxf.)

Masha Prager-Khoutorsky; B.Sc., Ph.D.(Hebrew)

Daniela Quail; B.Sc., Ph.D.(W.Ont.)

Melissa Vollrath; B.Sc.(Wisc.), Ph.D. (Baylor Coll., Houston)

### **Associate Members**

*Anaesthesia:* Steven Backman

*Biomedical Engineering:* Robert Kearney, Satya Prakash

*Biomedical Ethics:* Jennifer Fishman

PHGY 314 (3) Integrative Neuroscience

### Complementary Courses (12 credits)

12 credits selected as follows:

3 credits selected from:

BIOC 212 (3) Molecular Mechanisms of Cell Function

BIOL 201 (3) Cell Biology and Metabolism

3 credits selected from:

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

### Upper-Level Physiology (ULP) Courses

6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

\* The 6-credit course PHGY 459D1/D2 equals 3 credits of ULP and 3 credits of electives.

\*\* The 9-credit course PHGY 461D1/D2 equals 3 credits of ULP and 6 credits of electives.

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

Analyzing Ph

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 Organic Chemistry 1" must be completed in addition to the 64-65 program credits.

Students may complete this program with a minimum of 64 credits or a maximum of 65 credits depending on their choice of complementary courses.

#### U1 Required Courses (18 credits)

BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
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
PHGY 213	(1)	Introductory Physiology Laboratory 2

#### U2 and U3 Required Courses (19 credits)

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & 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
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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)	Cellular 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



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
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
EXMD 510	(3)	Bioanalytical Separation Methods
NEUR 310	(3)	Cellular Neurobiology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PPHS 501	(3)	Population Health and Epidemiology
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 470	(3)	Memory and Brain
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

\* 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)**

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 Adv



### 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
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, & Cardiovascular Physiology
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology

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](mailto: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](mailto: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
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, & Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, & Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 351	(3)	Research Techniques: Physiology
PHGY 359D1	(.5)	Tutorial in Physiology
PHGY 359D2	(.5)	Tutorial in Physiology
PHGY 459D1	(3)	Physiology Seminar
PHGY 459D2	(3)	Physiology Seminar
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

### Complementary Courses (15 credits)

9 credits selected as follows:

3 credits, one of:

BIOC 212                    (3)                    Molecular Mechanisms of Cell Function

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



of Arts program must attend a different information meeting from the one offered to students in the Faculty of Science. (For details, see [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.33: Psychology \(PSYC\)](#)). At this meeting, Paola Carvajal, the Academic Advisor, 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 collegial transcript(s). They should also consult the [eCalendar](#) and a preliminary Class Schedule before this advising session.

Students entering the Psychology program in January are strongly encouraged to visit the Academic Advisor, Paola Carvajal, in early December to clarify their course selections.

#### 11.13.33.4 Admission Requirements to the Bachelor of Science (B.Sc.) – Honours Psychology

Applications are available on the Psychology Department's website at [www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses](http://www.mcgill.ca/psychology/undergraduate/current-students/research-opportunities/research-courses). The deadline is specified on the application form. Candidates will be advised of the Department's decision via email before classes begin in September.

Students should note that awarding of the Honours degree will depend on the criteria listed below.

**Honours** is awarded to students with a minimum CGPA of 3.00, a minimum program GPA of 3.00, and a minimum grade of B in the required Honours courses, namely PSYC 380D1/PSYC 380D2 and PSYC 482. Moreover, the awarding of the Honours degree normally requires completion of two full years of study, U2 and U3, in the Honours program. Students with particularly strong academic records may be admitted for the U3 year only on the basis of their marks and research experience. These students must complete all Honours program requirements.

**First Class Honours** is awarded to students who obtain a minimum CGPA of 3.50, a minimum program GPA of 3.50, and a minimum grade of A- in the required Honours courses, namely PSYC 380D1/PSYC 380D2 and PSYC 482.

For more information, see [section 11.13.33.9: Bachelor of Science \(B.Sc.\) - Honours Psychology \(60 credits\)](#).

#### 11.13.33.5 Psychology Faculty

##### Chair

J. Lydon

##### Graduate Program Director

D. Titone

##### Clinical Program Director

B. Ditto

##### Undergraduate Program Director

G. O'Driscoll

##### Emeritus Professors

F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)

A.S. Bregman; B.A., M.A.(Tor.), Ph.D.(Yale)

D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(Cornell)

K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)

F.H. Genesee; B.A.(UWO), M.A., Ph.D.(McG.)

D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Ore.) (James McGill Professor)

A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)

R. Melzack; B.Sc., M.Sc., Ph.D.(McG.) (*E.P. Taylor Emeritus Professor of Psychology*)

D.S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)

Y. Oshima-Takane; B.A.(Tokyo Women's Christian Univ.), M.A.(Tokyo), Ph.D.(McG.)

R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)

J.O. Ramsay; B.Ed.(Alta.), Ph.D.(Princ.)

B. Sherwin; B.A., M.A., Ph.D.(C' dia) (*Canada Research Chair in Hormones, Brain and Cognition*)

Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)

D.M. Taylor; M.A., Ph.D.(W. Ont.)

### **Emeritus Professors**

N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)

### **Retired**

Andrew G. Baker; B.A.(Br. Col.), M.A., Ph.D.(Dal.)

M.J. Mendelson; B.Sc.(McG.), M.A., Ph.D.(Harv.)

### **Professors**

M. Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)

I.M. Binik; B.A.(NYU), M.A., Ph.D.(Penn.)

B. Ditto; B.S.(Iowa), Ph.D.(Ind.)

H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)

B. Knäuper; D.Phil.(Mannheim)

R. Koestner; B.A., Ph.D.(Roch.)

J. Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)

J. Mogil; B.Sc.(Tor.), Ph.D.(Calif.-LA) (*E.P. Taylor Professor of Psychology*) (*Canada Research Chair in Genetics of Pain*)

K. Nader; B.Sc., Ph.D.(Tor.) (*James McGill Professor*)

D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)

C. Palmer; B.Sc.(Mich.), M.Sc.(Rutg.), Ph.D.(Cornell) (*Canada Research Chair in Cognitive Neuropsychology Performance*)

M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cant.)

T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)

M. Sullivan; B.A.(McG.), M.A., Ph.D.(C'dia)

D. Titone; B.A.(NYU), M.A., Ph.D.(SUNY, Binghamton)

D.C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)

### **Associate Professors**

J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)

M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Yale)

G. O'Driscoll; B.A.(Welles.), Ph.D.(Harv.) (*William Dawson Scholar*)

K. Onishi; B.A.(Brown), M.A., Ph.D.(Ill.)

J. Ristic; B.A., M.A., Ph.D.(Br. Col.) (*W*)

### **Assistant Professors**

A. Weinberg; B.A.(Wesl.), M.A., Ph.D.(SUNY, Stony Brook) (*Canada Research Chair*)

### **Lecturer**

P. Carvajal

### **Professionals**

Rhonda Amsel; B.Sc., M.Sc.(McG.) (*Associate*)

Ian F. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (*Assistant*)

Judith LeGallais; B.A., M.A., Ph.D.(McG.) (*Faculty Lecturer*)

James MacDougall; M.Sc. (Associate Post-Retirement)

Jennifer Russell; B.A., Ph.D.(McG.) (*Assistant*)

### **Associate Members**

*Anesthesia*: T. Coderre

*Douglas Mental Health University Institute Research Centre*: S. King, N. Rajah, H. Steiger

*Educational Counselling Psychology*: V Talwar  
*Jewish General Hospital*: B Thombs, P. 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,



It is expected that most students who enter the Liberal 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 to be exempt from PSYC 204. In the first year, those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below 75%, must take Psychology PSYC 204. Those who have not taken Introductory Psychology in CEGEP must take PSYC 100.

### Required Course (3 credits)

PSYC 204	(3)	Introduction to Psychological Statistics
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### Complementary Courses (42 credits)

9 credits from:

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

### 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 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)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
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 Learning and 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**

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 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
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 Learning and 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**

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

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

**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 (33 credits)**

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**

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 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)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
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 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

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).



**Associate Members**

*Biology:* Graham A.C. Bell, Lauren Chapman

*Chemistry:* David N. Harpp (*Tomlinson Chair in University Science Teaching*)

*Earth & Planetary Sciences:* Jeanne Paquette

*McGill School of Environment:* Colin Chapman

**Adjunct Professors**

Robert Holmes, Henry M. Reiswig, Michael Woloch

**11.13.34.4 Bachelor of Science (B.Sc.) - Minor Natural History (24 credits)**

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.

**Required Course (3 credits)**

REDM 400 (3) Science and Museums

**Complementary Courses (21 credits)**

Students select 21 credits from among four course lists (A (Zoology), B (Botany), C (Earth and Environmental Sciences), and D (Field Courses)) with the following specifications.

- At least 3 credits and no more than 9 credits from each of Lists A, B, and C.
- At least 3 credits from List D.
- No more than 3 credits from any one list may be at the 200 level.

Note: Students may take up to a maximum of 9 credits of courses outside the Faculties of Arts and of Science.

**List A: Zoology**

\* Note: BIOL 205 and BIOL 215 may be applied to either List A or List B.

\*\* Note: Students may take either ENTO 330 or one of the cross-listed courses BIOL 350 and ENTO 350 as these courses have similar content.

AEBI 211	(3)	Organisms 2
ANTH 312	(3)	Zooarchaeology
BIOL 205*	(3)	Biology of Organisms
BIOL 215*	(3)	Introduction to Ecology and Evolution
BIOL 305	(3)	Animal Diversity
BIOL 350**	(3)	Insect Biology and Control
BIOL 352	(3)	Dinosaur Biology
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 427	(3)	Herpetology
BIOL 463	(3)	Mammalian Evolution
ENTO 330**	(3)	Insect Biology
ENTO 350**	(3)	Insect Biology and Control
ENTO 440	(3)	Insect Diversity
ENTO 535	(3)	Aquatic Entomology
EPSC 334	(3)	Invertebrate Paleontology
WILD 307	(3)	Natural History of Vertebrates

WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

**List B: Botany**

\* Note: BIOL 205 and BIOL 215 may be applied to either List A or List B.

AEBI 210	(3)	Organisms 1
BIOL 205*	(3)	Biology of Organisms
BIOL 215*	(3)	Introduction to Ecology and Evolution
BIOL 240	(3)	Monteregian Flora
BIOL 355	(3)	Trees: Ecology & Evolution
PLNT 304	(3)	Biology of Fungi
PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology

**List C: Earth and Environmental Sciences**

BIOL 540	(3)	Ecology of Species Invasions
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
EPSC 210	(3)	Introductory Ecology
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

### 11.13.35.1 Location

Dawson Hall, Room 405  
853 Sherbrooke Street West  
Montreal QC H3A 0G5  
Email: [pete.barry@mcgill.ca](mailto:pete.barry@mcgill.ca)  
Website: [www.mcgill.ca/scienceforteachers](http://www.mcgill.ca/scienceforteachers)

### 11.13.35.2 About Science or Mathematics for Teachers

The training and certification of school teachers has traditionally been the responsibility of the Faculty of Education and requires the completion of a Bachelor of Education, subject to regulations set by the Government of Quebec. The Faculties of Education and of Science offer the **Minor** in Education for Science Students for students in the B.Sc. who wish to combine Science or Mathematics with Education at McGill. The **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 will have completed some of the necessary credits for the B.Ed. degree should they wish to enrol in that program. For details, see [section 11.13.35.4: Bachelor of Science \(B.Sc.\) - Minor Education for Science Students \(18 credits\)](#).

The traditional **Bachelor of Education**, Secondary Program, Science and Technology, or Secondary Program, Mathematics is available within the Faculty of Education; see [Faculty of Education > Undergraduate > Br](#)

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

One of:

EDEC 260	(3)	Philosophical Foundations
EDEC 261	(3)	Philosophy of Catholic Education

One of:

EDEC 247	(3)	Policy Issues in Quebec Education
EDEM 220	(3)	Contemporary Issues in Education

6 credits from the list below:

\* Note: Students select either EDES 335 or EDES 353.

EDEC 262	(3)	Media, Technology and Education
EDES 335*	(3)	Teaching Secondary Science 1
EDES 353*	(3)	Teaching Secondary Mathematics 1
	(3)	Measurement and Evaluation

Students participating in any one of the field study semesters, i.e., the

### 12.2.1.2 Arctic Field Study Semester

Website: [www.mcgill.ca/arctic](http://www.mcgill.ca/arctic)

The **McGill Arctic Field Study Semester** comprises 15 credits of field study courses. Two courses (6 credits) provide the background to complete an independent research project. The other 9 credits are taken from Atmospheric & Oceanic Sciences, Earth & Planetary Sciences and Geography. One final complementary course (3 credits) is taken on campus to complete the Minor program requirements.

Visit the [Arctic 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:** Summer term

**Location:** Central Axel Heiberg Island in the Canadian High Arctic

**Enrolment Limit:** 10 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 [www.mcgill.ca/arctic/program-fees](http://www.mcgill.ca/arctic/program-fees).

Students can apply for a Travel (Mobility) Award from the Government of Quebec; see for details.

**Application Deadline:** March 31, 2020 for Summer 2020. The courses will be listed under "Fall 2020".

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 \(18 credits\)](#).

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## 12.2.2 Off-Campus Summer Programs

McGill offers the following off-campus summer program.

### 12.2.2.1 Desautels Faculty of Management

Courses are given abroad in the Summer session and cover essentially the same material as the equivalent courses given in Montreal. They will, however, be heavily influenced by the local business environment. Courses are offered in various locations.

For the most up-to-date information concerning Summer Abroad courses, please visit the Minerva Class Schedule at [www.mcgill.ca/minerva](http://www.mcgill.ca/minerva).

**Application Details:** For registration and/or advising, please contact the BCom Student Affairs Office at 514-398-4068.

## 12.2.3 Off-Campus Courses

McGill offers a number of off-campus courses.

### 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 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
EPSC 341	(3)	Field School 3

### 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
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### Off-Campus Geography Courses

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

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## 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](#).

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## 12.4 Exchange Programs

McGill students can study on exchange while paying McGill tuition and earning credits toward their McGill degree.

### 12.4.1 Eligibility

Student exchange programs are open to McGill students of all nationalities. To participate, applicants must be currently registered as full-time, degree-seeking McGill students, and meet the criteria of their faculty at McGill. Applicants must have completed at least one year of full-time study (24 McGill credits) by the start of the exchange. Students can participate in exchanges for one term or two terms.

Visit [www.mcgill.ca/mcgillabroad](http://www.mcgill.ca/mcgillabroad) for up-to-date information regarding to study abroad opportunities.

### 12.4.2 Applying for an Exchange

Applications must be submitted on Minerva. Complete application details are found on the McGill Abroad website: [www.mcgill.ca/mcgillabroad](http://www.mcgill.ca/mcgillabroad).

#### 12.4.2.1 Deadlines

All deadlines regarding student exchanges are available at [www.mcgill.ca/mcgillabroad/students-going-abroad](http://www.mcgill.ca/mcgillabroad/students-going-abroad). The McGill Application for Fall and Winter exchanges is generally open from November 15 to January 15. The Faculty of Law application deadline is earlier.

Detailed information on the application process and deadlines is contained on the McGill Abroad website: [www.mcgill.ca/mcgillabroad](http://www.mcgill.ca/mcgillabroad).

#### 12.4.2.2 Bilateral Student Exchanges

Bilateral student exchange agreements are tuition exchange agreements that exist between McGill University and one other institution, which has 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 exchange term abroad are billed McGill tuition and fees for that term (equivalent to 15 McGill credits). McGill University has bilateral agreements in many countries including: Argentina, Australia, Austria, Belgium, Brazil, Canada, Caribbean, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Russia, Singapore, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, the United Kingdom, and the United States. Exchange programs can be university-wide or faculty-specific. Faculty-specific agreements are only open to students in the specified faculty.

The full listing of bilateral partners can be found at [www.mcgill.ca/mcgillabroad](http://www.mcgill.ca/mcgillabroad).

### 12.4.3 Exchanges Within Quebec

The BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ) offers a Quebec Inter-University Transfer Agreement (IUT). Through this agreement, students registered at any Quebec university can take courses at any other of the province's universities for credit toward a degree at their home university. For more information, refer to [www.mcgill.ca/students/iut](http://www.mcgill.ca/students/iut)

#### **12.4.4 Transfer of Credits from Host Institution**

Grades received from the host institution do not appear on the McGill transcript nor are they calculated in the McGill CGPA. The McGill transcript includes a notation of participation in an e