



**Undergraduate Programs, Courses and
University Regulations**

Programs, Courses and University Regulations

2022-2023

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

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1 University Regulations and Resources

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.

1.1.2 Student Rights and Responsibilities

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

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

1.1.3 Language Policy

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

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



Note for Continuing Studies: For English language programs, see [Continuing Studies > Areas of Study > Languages > : English Language Programs](#).



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



Note for Graduate and Postdoctoral Studies: You should refer to [University Regulations & Resources > Graduate > Regulations > Registration > : Courses Taken as Extra to a Program](#).



Note for Health Sciences: Students studying in the Faculties of Dental Medicine and Oral Health Sciences or Medicine and Health Sciences or in the Schools of Human Nutrition, Nursing, or Physical and Occupational Therapy should consult the Health Sciences [language requirements](#) and any language policies pertaining to their specific program. Programs with a clinical component require that students have a working knowledge of both English and French.

1.1.4 Academic Integrity

Before submitting work in your courses, you must understand the meaning and consequences of plagiarism and cheating, which are serious academic offences. Inform yourself about what might be considered plagiarism in an essay or term paper by consulting the course instructor to obtain appropriate referencing guidelines. You should also consult *Fair Play*, the student guide to academic integrity available at mcgill.ca/students/srr/honest/students. There you will also find links to instructional tutorials and strategies to prevent cheating. The *Code of Student Conduct and Disciplinary Procedures* includes sections on plagiarism and cheating. The possession or use of unauthorized materials in any test or examination constitutes cheating. You can find the *Code* in the *Handbook on Student Rights and Responsibilities* or at mcgill.ca/students/srr/publications.

Responses on multiple-choice exams are normally checked by the Exam Security Computer Monitoring program. The program detects pairs of students with unusually similar answer patterns on multiple-choice exams. Data generated by this program can be used as admissible evidence in an investigation of cheating under Article 16 of the *Code of Student Conduct and Disciplinary Procedures*.

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



Note: All newly-admitted undergraduate students must complete a **mandatory online academic integrity tutorial** in their first semester, accessed through [Minerva > Student Menu > Academic Integrity Tutorial](#) or a registration "hold" will be placed on their record. Prior to Fall 2018, the tutorial was completed in myCourses via the course A444 100, but as of Fall 2018 the tutorial must be completed in Minerva. For more information, see mcgill.ca/students/srr/honest/students/test.



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

1.1.5 University Student Assessment Policy

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

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

You can consult the policy on the [Secretariat website](#).

1.1.6 Policy Concerning Access to Records

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

Personal information is protected in the Province of Quebec by the *Act Respecting Access to Documents held by Public Bodies and the Protection of Personal Information* (the "Access Act"). The Access Act provides that McGill University can only release personal information contained in your file with your authorization or if specifically authorized by law.

For the purpose of consent and acknowledgement at the time of application, personal information includes, but is not limited to: name, address, telephone number, email address, date of birth, citizenship, McGill ID, program, student status, and academic record information.

Registered students may oppose the release of certain personal information by completing an [Opposition Form](#) at the Enrolment Services Office or at the Student Affairs Office (Macdonald Campus).

After having reviewed the information relating to access to personal information at the time of application, you would be asked to agree that the University may collect, use, disclose, or otherwise manage your personal information as described below, as necessary and as the case may be.

At the time of application, you would also be asked to **consent to the release of 'personal information'** contained in your admissions or student records file to the following persons or bodies, as necessary to each body, in the exercise of their mission:

- student associations recognised by McGill University for the categories of student to which you belong (limited to your contact and program information);
- schools or colleges that you have attended;
- a professional body or corporation, where relevant;
- the *Ministère de l'Immigration, de la Francisation et de l'Intégration* and/or the *Régie de l'assurance maladie du Québec*; Immigration, Refugees, and Citizenship Canada and/or the *Ministère de l'Éducation et de l'Enseignement supérieur*;
- Universities Canada, the Association of Registrars of the Universities and Colleges of Canada, and the BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ), or the member institutions of these organizations, for the purpose of admissions operations and the production of statistics;
- libraries of other Quebec universities with which McGill has established reciprocal borrowing agreements;
- the appropriate authorities involved with external or internal funding of your fees (financial records may also be disclosed to such authorities);
- students and alumni of the University who have volunteered to speak with students for the purpose of facilitating their integration to the University;
- other universities and colleges, at the discretion of the University, if any information connected to your application is determined to be false and misleading, concealed or withheld, or contains evidence of academic dishonesty or inappropriate conduct;
- regulatory authorities, law enforcement or other persons, as authorized or required by law; and
- McGill Network and Communications Services for the purposes of listing your McGill email address in an online email directory.

In addition to the above, **if you are a candidate for admission to Graduate and Postdoctoral Studies, you would be asked to authorize the University** to request letters of reference on your behalf from referees you have identified, with the understanding that each referee would be provided with information indicating that you have applied to be admitted to McGill University, including your name, the McGill program you have applied to, the academic term when you wish to begin your studies at McGill, and your statement describing how the referee knows you.

In addition to the above, **if you are a candidate for admission to the Faculty of Law, you would be asked to consent to** the release of personal information to the Committee for Law Admissions Statistics Services and Innovations (CLASSI) and the Native Law Centre Summer Program at the Native Law Centre, University of Saskatchewan.

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

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

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

- collect and maintain your personal information for the purpose of administering your University admissions and student record files;
- obtain copies of your transcripts from the *Ministère de l'Éducation et de l'Enseignement supérieur*; the Ontario Universities' Application Centre and/or the British Columbia Ministry of Education;
- make inquiries to and obtain personal information from the *Ministère de l'Immigration, de la Francisation et de l'Intégration*, Immigration, Refugees, and Citizenship Canada and/or the *Régie de l'assurance maladie du Québec* to verify the validity of your immigration or health insurance status;
- validate with the *Ministère de l'Éducation et de l'Enseignement supérieur* information regarding your citizenship and previous institution attended, if necessary and as required in order to manage the admissions process and to determine your tuition fees;
- verify any information or statement provided as part of your application; and
- contact you through the McGill Alumni Association and University offices that maintain contact with McGill students, alumni, and friends, for the purpose of providing University updates and opportunities for direct support to the University, including fundraising, and making available special offers such groups may benefit from.

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

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

1.1.7 Undergraduate Leave of Absence Policy

A leave of absence may be granted to undergraduate students for reasons related to:

- maternity or parenting
- personal or family health
- professional development
- required military service

Such a leave must be requested on a term-by-term basis and may be granted for a period of up to 52 weeks. A leave of absence request should be submitted to your faculty Advising or Student Affairs Office along with appropriate documentation. Refer to specific instructions on your faculty website.

Students who are granted such a leave will have "leave of absence" recorded on their transcript.

No tuition fees will be charged for the duration of the authorized leave. During a leave of absence, you maintain an active student ID card and have access to McGill mail and use of the libraries. You are not permitted to register for courses or to participate in student internships or undergraduate research. You may not normally attend another academic institution; exceptions may be requested for professional development. Faculties may request documentation of a student's readiness to resume studies; they will apply "withdrawn" status after one year of approved leave of absence if the student has not returned to the University.

Notes:

- Personal objectives, such as travel or time off, and financial matters are not grounds for a leave of absence.
- Normally, a student shall be in Satisfactory Standing when requesting a leave of absence; exceptions may apply and will be determined by the faculty and, if applicable, the professional program.
- Services are only available to students currently enrolled in a program of study. Services for students who are not currently enrolled, **including students on authorised leaves of absence**, are limited to certain services mandated by government regulation and services that help a student transition back into or out of their studies (examples include connecting a student with services off-campus and government financial aid or immigration advising for students leaving or preparing for re-entry).
- A Leave of Absence may have an impact on a student's fee status once they re-enroll after their approved Leave. For more information, refer to the [Break in Enrolment](#) section on the Student Accounts webpage.
- Students who are eligible for scholarship renewal will not have scholarship monies transferred to their account while they are on leave of absence but will maintain eligibility for renewal upon registration in subsequent terms.
- Terms and conditions vary among loan and bursary providers; student consultation with an adviser in Scholarships and Student Aid is recommended.
- Professional programs may impose constraints to application of the undergraduate leave of absence policy due to accreditation requirements or placement limitations.

- International students are advised to contact [International Student Services](#) (ISS) regarding individual circumstances.



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



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



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

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

1.1.8 Information Technology (IT) Policies and Regulations

McGill University students, faculty, staff, and other members of the McGill community benefit from a variety of Information Technology resources, which are used in accordance with University policies and directives. Visit the [IT policies](#) for further details.

Here are some key references for students :

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

1.1.8.1 Responsible Use of McGill Information Technology Resources

Each of us has responsibilities when using McGill's IT resources. The [Policy on the Responsible Use of McGill Information Technology Resources](#) is a code of conduct that identifies what is acceptable when working with McGill technology resources.

For more information, view the [Policy on the Responsible Use of McGill Information Technology Resources](#) , available on the [Secretariat website](#).



Note for M.D.,C.M. and D.M.D. Programs: For guidelines regarding the use of social media by M.D.,C.M. and D.M.D. students, see [mcgill.ca/ugme/policies-procedures/guidelines-social-media](#) and [mcgill.ca/thewelloffice](#).

1.1.8.2 Report Security Incidents

Please inform IT Services immediately if you experience or are aware of an IT security incident!

- Contact IT Service Desk through the [IT Support portal](#);
- Or by telephone at 514-398-3398.

For more information, please refer to the [IT Security Incident Response Protocol](#) .

1.1.8.3 Use of Cloud Services

McGill's [Cloud Directive](#) governs your usage of cloud services—programs and apps delivered over the Internet. McGill has approved cloud apps and solutions that are available for your use while at McGill. However, you'll need to choose your apps wisely as not all apps are safe, and they won't all adequately protect sensitive data (either your own or McGill's).

To learn how to safely use cloud apps and solutions, please refer to our [Cloud Services Page](#).

1.1.8.4 Two-factor Authentication (2FA)

All student, faculty and staff accounts are protected with [two-factor authentication \(2FA\)](#), an additional security measure that requires a secondary method of authentication (ex.: acknowledging a prompt or entering a code sent to your mobile device via a mobile app) when signing into many McGill systems. 2FA makes it much harder for cybercriminals to access your account and your personal information, even if they obtain your password. 2FA is required for all higher education institutions in Canada.

Find out more about 2FA at [mcgill.ca/2fa](#).

1.1.8.5 Email Communication

All students are assigned a McGill email address (usually in the form of *firstname.lastname@mail.mcgill.ca*) and are given a McGill email mailbox. It is your responsibility to monitor your McGill email regularly because this is the official means of communication between McGill University and its students. Ensure that you read and act upon the emails in a timely fashion.

To access your McGill email, go to the Microsoft Office website and sign in with your McGill username and password.



Note: Confirm your McGill email address or set your McGill password on *Minerva*, under the *Personal Menu*. You can also change or reset your McGill password by following the instructions on the *McGill Password Reset Checklist*.

If you have another email account using an external service provider (such as Gmail, Hotmail, Yahoo, etc.), please review the "*Options for dealing with multiple email services*" article on the IT Knowledge Base.

For more information, visit the *Policy on E-mail Communication with Students*, available on the *Secretariat website*.

1.1.8.6 Secure your Journey

IT policies and directives identify measures required to ensure the security and integrity of data and systems you use throughout your student journey. Find out about best practices and cybersecurity steps you can take at mcgill.ca/cybersafe.

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 mcgill.ca/wellness-hub/access-care/vaccines-immunization-reviews 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 and Canadian Immigration Authorities require a copy of your proof of health insurance on file. Take note, that minors (less than 18 years of age) are now *eligible* to apply for the provincial coverage in Quebec, Régie de l'assurance maladie du Québec (RAMQ).

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

Students covered by private health insurance are not exempt from the McGill plan. However, you may be eligible for an *exemption* by meeting certain criteria. **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* by *certain deadlines*, 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 academic year.

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

International Health Insurance

Telephone: 514-398-4349

Email: international.health@mcgill.ca

Website: mcgill.ca/internationalstudents/health



Note for Continuing Studies: International students who are enrolled in **credit** courses at School of Continuing Studies are also billed IHI and should also refer to the *Office of International Student Services* website 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, 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

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 the Quebec provincial health plan, contact:

Régie de l'assurance maladie du Québec (RAMQ)

425 Boulevard de Maisonneuve O., Suite 301

Montreal QC H3A 3G5

Telephone: 514-864-3411

Website: www.ramq.gouv.qc.ca/en/pages/home.aspx

Important: If you are not eligible, in order to ensure adequate health insurance coverage you may enrol in the *group plan* offered through International Student Services for international students. **Please note that this option is available only during the first month of each new semester at McGill.**



Note for Continuing Studies: Continuing Studies students also have access to a health and dental plan offered by MACES; please refer to http://studentcare.ca/rte/en/IHaveAPlan_MACES_Home for eligibility and other information.



Note for Graduate and Postdoctoral Studies: Graduate students classed as Canadian full-time or Additional Session, Thesis Evaluation, Non-Thesis Extension, as well as postdoctoral candidates are automatically covered by their society's extended Health and Dental Plan (PGSS). Eligible students not charged automatically for insurance fees can choose to enrol themselves during the appropriate Change-of-Coverage period. For more information on what is covered by this plan, as well as enrolment, opt-out procedures, and deadlines, please refer to the latest information at studentcare.ca/rte/en/McGillUniversitygraduatestudentsPGSS_Home. Students without valid Canadian medicare, please see *section 1.1.9.2: Health Insurance – International Students*, or the **Canadians who have been residing outside of Canada** section above.

1.1.9.4 Special Medical Needs

If you have special medical needs, please book an appointment with the Student Wellness Hub to discuss how to manage your health while at McGill. Contact information for the **Downtown campus** is available at mcgill.ca/wellness-hub/access-care/meet-professional, and for the **Macdonald campus** at mcgill.ca/wellness-hub/access-care/macdonald-campus-care.

If you anticipate encountering ongoing barriers in the academic or physical environment due to disability, injury, or illness, please consult with the *Office for Student Accessibility & Achievement* to determine an appropriate individualized accommodation plan. Appropriate medical documentation may be required, and can be discussed with an Access adviser. Academic accommodation planning and support is available to students at the downtown campus as well as the MacDonal campus, and to students in Continuing Studies. Please refer to mcgill.ca/osd for more information, or to book an appointment.



Note for Medicine and Health Sciences: See the WELL Office at mcgill.ca/thewelloffice.

1.1.9.5 Academic Accommodation of Pregnant Students and Students Caring for Dependents

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.

1.1.10 Non-Smoking Policy

Quebec law prohibits smoking in public buildings. Smoking on University Property is permitted only within outdoor Designated Smoking Areas. Smoking is prohibited outside any Designated Smoking Area on University Property. For more information, see mcgill.ca/ehs/policies-and-safety-committees/policies/mcgill-smoking-policy and mcgill.ca/secretariat/policies-and-regulations.



Note: For the purposes of the Tobacco Control Act, "smoking" also covers the use of an electronic cigarette or of any other device of that nature; "tobacco" also includes the following accessories: cigarette tubes, rolling paper and filters, pipes, including their components, and cigarette holders. Please consult *Chapter L-6.2 - Tobacco Control Act*, for further information.

1.1.11 Policy Concerning Cannabis

McGill University has adopted a *Policy Concerning Alcohol, Cannabis and Other Drugs*. This policy applies to all McGill students, faculty, staff and visitors on the Downtown and Macdonald campuses, the Gault Nature Reserve, and spaces leased by the University. The policy only permits the consumption of cannabis for medical reasons, accompanied by a valid medical certificate, under certain conditions. However, all consumption of cannabis for recreational use is prohibited on University property.

For further details on this policy please refer to the [Policy Concerning Alcohol, Cannabis and Other Drugs](#).

1.2 Personal Information

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

1.2.1 Updating Personal Information

It is important to keep your McGill records up to date with your personal information, especially your mailing or billing address, as these are used by the University year-round.

You must update your address(es) and/or telephone number(s) and emergency contact information on [Minerva](#) under the *Personal Menu*.

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

If you need to change important personal information that requires the University to verify official documents—such as a name or citizenship change, or a correction of your birth date—refer to the instructions at mcgill.ca/student-records/personal-information/address. Macdonald campus students can request changes in person at the [Macdonald Campus Student Affairs Office](#), Laird Hall, Room 106.



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



Note for Nursing: A Quebec address and telephone number are required for Nursing students on Minerva to meet OIIQ registration requirements.

1.2.2 Online (Distance) Programs

Students registered in exclusively online (sometimes referred to as 'distance') programs are required to declare, for every term they are registered in the online program, where they are geographically located while studying. For students pursuing an online program, location while studying is considered — along with the fee residency status (i.e. Quebec Resident, Canadian or International) — when determining what fees are charged.

The following programs are designed to be offered exclusively online and, with some exceptions, are not offered on one of McGill's campuses:

Undergraduate Programs

: *Bachelor of Nursing (B.N.I.) - Integrated Nursing (65 credits)* **

Graduate Programs

: *Graduate Certificate (Gr. Cert.) Chronic Pain Management (15 credits)*

: *Graduate Certificate (Gr. Cert.) Cybersecurity (15 credits)*

: *Graduate Certificate (Gr. Cert.) Educational Leadership 1 (15 credits)* **

: *Graduate Certificate (Gr. Cert.) Educational Leadership 2 (15 credits)* **

: *Graduate Certificate (Gr. Cert.) Educational Leadership 3 (15 credits)* **

: *Graduate Certificate (Gr. Cert.) Healthcare Management (15 credits)* *

: *Graduate Certificate (Gr. Cert.) International Leadership in Educational and Administrative Development (15 credits)* *

: *Certificat d'études supérieures (Cert.ed.sup.) pédagogie de l'immersion française (15 crs)*

: *Graduate Certificate (Gr. Cert.) Public Relations & Communication Management Practice (15 credits)*

: *Graduate Certificate (Gr. Cert.) Teaching English as a Second Language (15 credits)* **

Master of Management (M.M.) IMHL (Non-Thesis) (as of the Winter 2023 term) *

Continuing Studies Programs (Undergraduate and Graduate Levels)

: *Certificate (Cert.) Applied Cybersecurity (30 credits)*

: *Certificate (Cert.) Computers and Information Technology (30 credits)*

: *Certificate (Cert.) Indigenous Business Management (30 credits)*

: *Certificate (Cert.) Public Administration and Governance (30 credits)*

: *Diploma (Dip.) Public Administration and Governance (30 credits)*

: *Graduate Diploma (Gr. Dip.) Legal Translation (30 credits)*



*: This program is self-funded



** : This program may also have an on-campus equivalent. Only students in the online version of the program must use Minerva to submit a declaration of location for a registered term.

Students in the online version of any program listed above, except those that are self-funded, will pay tuition as follows:

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

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

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

- Fall term:** July 16
- Winter term:** November 16
- Summer term:** March 16

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

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

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

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

1.2.3 Submitting Legal Documents

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

1.2.3.1 Why Does McGill Collect Legal Documents from You?

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

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

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



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

1.2.3.2 What Documents Does McGill Need from You?

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

Quebec and Canadian Out-of-Province Students	
You have applied to McGill directly from CEGEP or you already have a student record at McGill	<ul style="list-style-type: none"> • Usually no documents are required to prove your Canadian and/or Quebec status. In most cases, your status is confirmed to us by the Government

Quebec and Canadian Out-of-Province Students

of Quebec or is already in your McGill record. Check your [Minerva](#) account to verify that your status is updated correctly (Select *Student Menu* > *Student Accounts Menu* > *View your Tuition and Legal Status*)

You have applied to McGill from another Quebec university

- 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 card; or valid Canadian Confirmation of Permanent Residence document (*Note 2*); or valid Canadian Permanent Resident card (both sides of the card)
- Additionally, for Quebec residency status, **usually** no documents are required, unless McGill cannot confirm this from the Government of Quebec. Check your [Minerva](#) account to verify that your status is correct

You were born in Quebec

- Quebec **birth certificate** (*Note 4*)

You were born in (or are a Landed Immigrant from) a Canadian province other than Quebec

- Canadian birth certificate; or Canadian citizenship card or certificate (both sides); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence document (*Note 2*); or valid Canadian Permanent Resident card (both sides of the card)
- Permanent Code Data Form (*Notes 1 and 5*)

You are a Quebec resident as defined by one of the other situations outlined by the Government of Quebec

- Canadian birth certificate; or Canadian citizenship card or certificate (both sides); or Certificate of Indian status card; or Makivik Society card; or valid Canadian Confirmation of Permanent Residence document (*Note 2*); or valid Canadian Permanent Resident card (both sides of the card)
- Permanent Code Data Form (*Notes 1 and 5*)
- Attestation of Residency in Quebec Form (*Note 5*)
- **Other supporting documents**, depending on which situation you checked on the above Attestation of Residency Form

International Students

You will be studying at McGill for less than six months (i.e., for only one academic semester) as a non-degree student (e.g., Exchange, Special, Visiting)

- You may need a Visitor's Permit or *eTA* issued by Immigration, Refugees, and Citizenship Canada at your port of entry into Canada. To determine if you are required to have a visa, please refer to the [Immigration and Citizenship](#) website
- Photo page of your passport
- Permanent Code Data Form (*Notes 1 and 5*)

You will be in Canada for more than six months (i.e., you are enrolled in a degree, certificate, or diploma program, usually for two or more consecutive academic semesters)

- Certificate of Acceptance of Quebec (CAQ)
- Study Permit issued by Immigration Canada (*Note 3*)
- Permanent Code Data Form (*Notes 1 and 5*)



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



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



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



Note 4: Usually McGill needs your birth certificate to 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 mcgill.ca/legaldocuments/forms.

1.2.3.2.1 Fee Exemptions

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

1. **French Course Fee Exemptions** – Non-Quebec Canadian and international students are automatically assessed fees for certain eligible French courses at the Quebec tuition rate (note exclusions as listed at mcgill.ca/student-accounts/tuition-fees/general-tuition-and-fees-information/tuition-fee-exemptions).
2. **Out-of-province Tuition Supplement Exemptions** – Non-Quebec Canadian students in the following categories are exempted from out-of-province tuition supplements (details at mcgill.ca/student-accounts/tuition-fees/general-tuition-and-fees-information/tuition-fee-exemptions):
 - Students in a Ph.D. program
 - Students in a Postgraduate Medical Education program: Medical Residents, Clinical Fellows, Clinical Research Fellows, Research Fellows
 - Students registered full-time in the Master's in French (*Maîtrise en français*). The exemption begins at the moment the student registers in the program, without retroactive effect.
3. **International Students Eligible for Fee Exemptions Based on Legal Status in Canada** – Students with one of the following statuses may be exempt from International Supplements (certain categories may be assessed at the Canadian tuition rate; full details regarding eligibility criteria are listed at mcgill.ca/legaldocuments/exemption):
 - Citizens of France
 - Citizens of certain countries with an agreement with the Government of Quebec
 - Diplomatic, consular, or other representatives of international organizations
 - Convention refugees
 - Students awaiting permanent residency in Canada and holding an eligible CSQ
 - Students whose spouse holds, or unmarried students whose parent holds, a Temporary Work Permit in Canada
 - Students funded by the FRSQ (*Fonds de la recherche en santé du Québec*)

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

Note that this information may be subject to change.

1.2.3.3 Has McGill Received Your Documents?

1.2.3.3.1 Quebec/Canadian/International Fees and Immigration Status

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

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



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

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

If you do not agree with your tuition status, notify McGill right away. Documentation provided to modify your legal and tuition status must be received within the given semester for changes to be applied for that semester. Retroactive tuition status updates are not permitted; requests and documents submitted after the semester has ended will be processed, with changes applied to the following semester.

1.2.3.3.2 Permanent Code

Your Permanent Code will be created and/or validated by the Quebec Ministry of Education normally within the first six to eight weeks of your first registered semester at McGill.

- Check your Permanent Code on *Minerva*: *Personal Menu > Name Change* or alternately via *Student Menu > Student Accounts Menu > View Tuition Fee and Legal Status*. If your 12-character Permanent Code appears there, your documents are in order. If not, you have not yet provided McGill with your documents listed in [section 1.2.3.2: 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.

1.2.3.4 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 in some cases, from obtaining your official transcript.

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

1.2.3.5 Where and How Do I Send My Documents?

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

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

If there is a problem with your documents, contact:

Telephone: 514-398-7878

Website: mcgill.ca/servicepoint/contact-us

1.2.3.5.1 For the School of Continuing Studies

By Email:

legaldocuments.conted@mcgill.ca

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

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

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

Telephone: 514-398-6200

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

1.2.4 Identification (ID) Cards

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

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

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

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



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

1.2.4.1 ID Card Schedule for the Downtown Campus

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

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

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

1.2.4.2 ID Card Schedule for the Macdonald Campus

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

The Macdonald Campus ID Centre is in the Student Affairs Office, Laird Hall, Room 106.

Information on when the ID Centre is open can be found [here](#).

1.2.5 Legal Name

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

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

1. Canadian birth certificate or citizenship certificate.
2. Canadian Immigration Record of Landing, (IMM 1000 or IMM 5292 or IMM 5688 and Permanent Residence card.)
3. Canadian Immigration Study or Work Permit.
4. Certificate of Acceptance of Quebec (CAQ.)
5. International passport (**Note:** If you possess Canadian citizenship, a Canadian citizenship card or certificate is required as a Canadian passport is not acceptable.)
6. International birth certificate (with an official translation in English or French)
7. Letter from international student's consulate or embassy in Canada.
8. Marriage certificate issued outside of Quebec (translated into English or French by a sworn officer if in another language). *Note that Quebec marriage certificates are only acceptable if issued prior to 1984.*
9. Certificate of Name Change issued by the Quebec *Directeur de l'état civil* or applicable force in any Canadian Province.

In the case of a variation in the spelling of the name among these documents, the University will use the name on the document that appears first on the above list.

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

1.2.5.1 Preferred First Name

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

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

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

- McGill ID cards
- Class lists
- Student advising transcripts

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

- Official university transcripts
- Reports to government
- Letters of attestation
- Diplomas and certificates
- Tuition fee e-bills

It is important to note that making a request to use a preferred first name at McGill does not change a student's legal name in the McGill student record or records with government authorities.

You can provide a preferred first name on your application for admission or, once admitted, on [Minerva](#), under the *Personal Menu*. From the *Personal Menu*, select *Name Change* and then add your preferred first name in the preferred first name field.

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

1.2.5.2 Verification of Name

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

Note that you cannot change your legal name via Minerva. Requests for such changes must be made by presenting official documents (see [section 1.2.5: Legal Name](#) and [section 1.2.5.1: Preferred First Name](#)) in person at *Service Point*, 3415 McTavish Street, Montreal QC H3A 0C8.



Note for Continuing Studies: Requests for such changes must be made by presenting official documents (see [section 1.2.5: Legal Name](#)) in person at the *Client Services Office*, School of Continuing Studies.

1.3 Registration

Once you have confirmed your intention to attend McGill in *Minerva*, you must register by adding courses to your record during the registration periods listed on the [Important Dates website](#). You must register on Minerva and can continue to do so throughout the registration period by adding and dropping courses until you have finalized your schedule.

All course descriptions are available in *Class Schedule* and on the *eCalendar*. If you are a new student, you should refer to [section 1.3.2: Course Information and Regulations](#) to familiarize yourself with McGill's course numbering system ([section 1.3.2.1: Course Numbering](#)), multi-term course rules ([section 1.3.2.2: Multi-term Courses](#)), and course terminology ([section 1.3.2.3: Course Terminology](#)).

For fee policies related to registration and withdrawal from courses or withdrawal from the University, please refer to [section 1.4: Fees](#).



Note for the Faculties of Arts and Science (including B.A. & Sc.): For detailed information on registration, you can also refer to:

- Arts: mcgill.ca/oasis
- Science and B.A. & Sc.: mcgill.ca/science/student



Note for the Faculty of Engineering:

- If you are a **returning student**, it is mandatory that you see a departmental/school academic adviser to review your course selection at the beginning of the Fall and Winter terms.
- If you are a **new student**, it is mandatory that you see a departmental/school academic adviser during the advising period. For advising days, times and locations for new students, see the [Faculty of Engineering website](#).



Note for the Faculty of Law: For information regarding the registration periods for new and returning students in the Faculty of Law, please refer to the [Law Student Affairs Office website](#).

Returning Students – During the month of June, 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 mcgill.ca/law-studies/courses.



Note for Medicine and Health Sciences: 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. Medical students should refer to information provided by Medical Admissions (Med-1 students) or the UGME office (Med-2 to 4) for registration deadlines.

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 in the [Important Dates Search Tool](#).

1.3.1.1 Returning Students

Registration for undergraduates will take place between May 25 and August 14, 2022.

Registration will open in the following order:

Opening Registration Dates

Year 3 and Year 4 students:	May 25
Year 2 students:	May 26
All other returning students:	May 27

On each of these days, registration is phased in over the morning beginning at 8:00 a.m. Please see [When to Register](#) for details.

Some faculties and departments set their own schedules for advising and registration as of these dates. Further information is available at faculty student affairs offices and websites. For more information, see the [Advisor Directory](#).

To successfully complete registration, you must have an acceptable Academic Standing from the previous session and have paid any outstanding fees and/or fines.



Note for the Faculty of Law: In order to facilitate access to small enrolment courses and ensure equity among students, registration priorities are programmed in Minerva. These priorities, established after consultation between the Faculty and the Law Students' Association, are made on a rolling basis by class year (i.e., fourth-year students register first). Priority registration dates are established by the Student Affairs Office and posted on the [Law SAO website](#).



Note for Health Sciences: The information contained in this section applies to the University in general; students are advised to consult the appropriate faculty or school section for academic policies and regulations specific to their programs.



Note for Medicine: Students must register on Minerva for all courses within the registration period. Please refer to information provided by Medical Admissions (Med-1 students) or the UGME office (Med 2 to 4) for registration deadlines.



Note for Medicine and Dentistry: U2 medical and dental students need to have registered prior to August 14, 2022.

1.3.1.2 Newly Admitted Students Entering in September 2022

Registration will take place between June 8 and August 14, 2022.

Registration will open in the following order:

Wednesday, June 8: registration opens for students admitted from Quebec CEGEPs.

Wednesday, June 15: registration opens for students **whose highest level of education** prior to registering at McGill is a French Baccalaureate, International Baccalaureate, or at least one year of university, or who were admitted on the basis of Advanced Levels, CAPE, or other academic qualifications, which provides for Advanced Standing credit, and who therefore have a classification of Year 1 (U1) or higher.

Thursday, June 16: registration opens for students **whose highest level of education** prior to registering at McGill is **high school, and** who have been admitted to a classification of Year 0 (U0) to the following faculties/schools/degrees: *Arts (including Schools of Religious Studies and Social Work), B.A. & Sc., Education, Management, and Music*.

Friday, June 17: registration opens for students **whose highest level of education** prior to registering at McGill is **high school, and** who have been admitted to a classification of Year 0 (U0) to the following faculties/schools: *Agricultural and Environmental Sciences, Engineering (including Architecture), Nursing, Occupational Therapy, Physical Therapy, and Science*.

If you are a newly admitted student in September 2022 and you want to register for courses in the Summer of 2022, you can do so on Minerva. Please refer to [Summer Studies](#) for further information, or see mcgill.ca/summer.



Note for the Faculty of Law: Tuesday, July 12, 2022: registration opens for newly admitted students. You can find instructions on how to use Minerva in your orientation package; for more information, see the [Law Student Affairs website](#).



Note for Medicine and Health Sciences: You must register in all courses no later than **August 14** and attend the Faculty of Medicine and Health Sciences and Faculty of Dental Medicine and Oral Health Sciences mandatory orientation & registration session, where your course registration can be confirmed. Information on the mandatory orientation & registration session is available on the [Faculty of Medicine and Health Sciences Office of Admissions website](#).

1.3.1.3 Newly Admitted Students Entering in January 2023

Registration will take place between December 1, 2022 and January 4, 2023 [section 1.3.1.4: without penalty](#).

Some faculties and departments require that you meet with an adviser before registration and set specific dates for advising and registration within these dates. Please refer to the faculty sections of this publication, as well as the *Welcome to McGill* publication or [website](#), or the [Essential Guide for New Students, Macdonald Campus](#), which are included with your acceptance package.



Note for Dentistry: Students accepted into the DMD Advanced Standing for Foreign Trained Dentists Pathway will begin classes the first week of December 2022.



Note for the Faculty of Law: There is no Winter term admission to the Faculty of Law.

1.3.1.4 Late Registration

If you fail to register during the normal registration period, you can register within the period designated by the University for late registration with the payment of a **late registration fee**. For late registration fees, see *Late Registration and Course Change Charges* on the [Student Accounts website](#).

Returning Students: You may register late via Minerva from August 15 until and including September 13, 2022.

New and Readmitted Students (Fall): You may register late via Minerva from August 15 until and including September 13, 2022.

New and Readmitted Students (Winter): You may register late via Minerva from January 5 until January 17, 2023.

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

1.3.2 Course Information and Regulations

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

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

Not all courses listed are offered every year.



Note for Graduate Studies: You are advised to also refer to [University Regulations & Resources](#) > [Graduate](#) > [Regulations](#) > [: Registration](#) and [: Student Records](#).



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



Note for Summer Studies: Refer to [: Student Types and Registration Procedures](#) and [section 1.5: Student Records](#) for further information.

1.3.2.1 Course Numbering

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

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

These codes were implemented in September 2002, replacing the three-number teaching unit codes previously used. A complete list of teaching unit codes and their subject code equivalents can be found at mcgill.ca/student-records/transcripts/key in the section *Cross-walk of current subject codes to pre-2002 course numbers*.

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

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

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

1.3.2.2 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 1821 and Winter 1822.

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 – Associate Dean, Student Affairs, Science

Important Conditions for Multi-term Courses

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

1.3.2.3 Course Terminology

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

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

Credits: The credit weight of each course is indicated in parentheses beside the course title. For D1 and D2 courses, the credit weight is indicated after the course number. For further information, refer to [University Regulations & Resources](#) > Undergraduate > Student Records > [section 1.5.2: Credit System](#).

1.3.2.3.1 Course Nomenclature in Program Descriptions

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

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

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

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:

- 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, mcgill.ca/student-records/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 mcgill.ca/students/advising/advisordirectory.



Note for the Faculties of Education and Management and the School of Religious Studies:

- Newly admitted students may take up to 17 credits per term.
- Continuing students in **Satisfactory Standing** may take up to 17 credits per term.



Note for the Faculty of Engineering:

- The normal course load is 15 to 18 credits per term.
- If you want to register for more than 18 credits in a term, you must obtain permission from your departmental/school adviser.
- If you have deferred exams (grade of L on your unofficial transcript), you cannot register for more than 18 credits or write more than six exams per term, whichever is greater.
- You must register for enough credits to satisfy visa, financial aid, and/or scholarship requirements.

- 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.



Note for the Faculty of Law:

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



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



Note for Medicine: M.D.,C.M. students, please refer to mcgill.ca/ugme.



Note for the Schulich School of Music:

- The normal course load is 15 to 18 credits per term.
- Continuing students in **Satisfactory Standing** who wish to register for more than 18 credits must obtain permission from the Academic Adviser or Area Coordinator.

1.3.2.4.2 Course Load for Students in Probationary Standing

Students in Probationary Standing may take up to 12 credits per term, with the following exceptions:

- Agricultural and Environmental Sciences: 14 credits
- Arts: up to 14 credits
- Engineering: 13 credits maximum, including repeated courses
- Management: 12 credits maximum of new material
- Music: 14 credits
- 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 are responsible for selecting the S/U option on the correct course amongst all courses you are registered for, and that the course is eligible for the option per faculty and program regulations.** 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. Once the option is selected, and the course change deadline has passed, you may still *remove* the option up until the Withdrawal with no refund deadline.

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 (unless otherwise stated by your faculty), not including courses completed under the S/U option.



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

McTavish Street) to make this request. However, it is important that you also see a faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see mcgill.ca/students/advising.



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

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



Note for Agricultural & Environmental Sciences, Arts, B.A. & Sc. and Science: Freshman year (U0) students are not eligible to select the S/U option.



Note for Engineering:

- B.Eng. students may use the S/U option for Complementary Studies courses (i.e., Group A *Impact of Technology on Society* and Group B *Humanities and Social Sciences, Management Studies and Law*), Natural Science Complementary Courses (for Computer Engineering students from CEGEP and all Software Engineering students), and Elective Courses (for Mechanical Engineering students from CEGEP). You cannot use the S/U option for courses in any other category of the Engineering programs. If you choose not to use the S/U option, a grade of D is acceptable as a pass for these Complementary Studies courses.
- B.Sc.(Arch.) students may use the S/U option for elective courses taken outside the School of Architecture. You cannot use the S/U option for courses in any other category of the Architecture program. If you choose not to use the S/U option, a grade of D is acceptable as a pass for these elective courses.
- You cannot use the S/U option for courses that are taken to satisfy a minor.



Note for Law:

- The S/U option is available for Law and non-Law electives and Law complementary courses within the BCL/JD. program.
- The S/U option is limited to one course in the BCL/JD. program for a maximum of 4 credits.
- Students are not permitted to choose the S/U option for required courses.
- The S/U option is not permitted for courses that are taken to satisfy a minor.



Note for Management: The S/U option is not available on Minerva for Management students. Requests for the S/U option can only be made during the official add/drop period. Please contact the BCom Office (mcgill.ca/desautels/programs/bcom/contact-us) for details on the conditions that apply.



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 Schulich School of 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 major or 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.

1.3.2.6 First-Year Seminars

First-Year Seminars (FYS) are limited-enrolment credit courses offered by the Faculties of Arts and Science to students in their first year of undergraduate study at McGill; i.e., newly admitted students in U0 or U1. Students in any faculty can enrol in an FYS, subject to the conditions and/or restrictions of the program in which they are registered. Students may take only one FYS.

FYS classes are limited to a maximum of 25 students and are designed to provide closer interaction with the professor, and better working relations with peers than are available in large introductory courses. The seminars endeavour to teach the latest academic developments and expose participants to advanced research methods. Registration is on a first-come, first-served basis.

For a listing of First-Year Seminars, see [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.1: First-Year Seminars](#) and [Faculty of Science > Undergraduate > Faculty Degree Requirements > Course Requirements > section 11.6.5.5: First-Year Seminars: Registration](#).

1.3.2.7 Auditing of Courses

McGill does not permit auditing of courses.



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

1.3.3 Course Change Period

You may make changes to your course registrations (add or drop courses), subject to the requirements and restrictions of your program and individual courses from the opening date of registration until the end of the course change period. The course change deadline coincides with the deadline for late registration. See mcgill.ca/importantdates.

If you drop all Fall courses **before** the end of August (or drop all Winter courses **before** the end of December), you will not be registered in that term. If you are a newly admitted student, you may be able to defer your admission (see [section 1.3.9: Deferred Admission](#)), or you may have to apply for a later term. If you are a returning student and want to register in a later term, you must follow the procedures for readmission (see [section 1.3.10: Readmission](#)).

If you drop all Fall courses **after** the end of August (or drop all Winter courses **after** the end of December) you are considered University Withdrawn and your transcript will display a notation in that term. Whether you are a newly admitted or returning student, you must follow the procedures for readmission. For more information see [section 1.3.10: Readmission](#).

If you are registered in the Fall term, you may add and drop Winter term courses throughout the Fall term until the Winter term deadline for course change/late registration.

After the course change deadline, you may add courses only with written permission of the instructor, and the Associate Dean or Director of your faculty. A fee will be charged for each course you add.



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



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

1.3.3.1 Course Withdrawal

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

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

1.3.3.1.1 Courses that Begin in the Fall Term

Deadline for withdrawal (grade of W) *with* refund:

- Tuesday, September 20, 2022

Deadlines for withdrawal (grade of W) *without* refund:

- Single-term courses: Tuesday, October 25, 2022
- Multi-term courses that begin in Fall term (**refund for the Winter portion of the course only**): Tuesday, January 17, 2023

1.3.3.1.2 Courses that Begin in the Winter Term

Deadline for withdrawal (grade of W) *with* refund:

- Tuesday, January 24, 2023

Deadline for withdrawal (grade of W) *without* refund:

- Single-term courses: Tuesday, March 7, 2023
- Multi-term courses that begin in Winter term (**refund for the Summer or later portion of the course only**): May 15, 2023*

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

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



Note:

1. To withdraw from required or complementary courses after the withdrawal (without refund) deadline, you may need to obtain permission from your adviser, and you must fill out and submit a course withdrawal form, available from your faculty Student Affairs Office. Additional restrictions for Music courses are indicated in [Schulich School of Music](#).
2. It is solely your responsibility to initiate a course withdrawal on *Minerva*. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on *Minerva* is the official date of withdrawal, even if you had stopped attending lectures earlier.

3. You may still withdraw from a course after the course change deadline without academic penalty provided that you do so within the appropriate withdrawal deadlines for the term. Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with [section 1.4.7: Fees and Withdrawal from the University](#).
5. Withdrawing from one or more courses during the semester may—where applicable—affect your government aid and/or McGill's Work Study Program eligibility. For international students, it may also impact your immigration status and/or permission to work in Canada. Please ensure that you are aware of any consequences related to the course withdrawal request; consult with the [Scholarships & Student Aid Office](#), [International Student Services](#), and/or your faculty Student Affairs Office, where relevant.



Note for the School of Human Nutrition: Intensive internship courses, like Professional Practice (*Stage*) in Dietetics, may have different start dates and withdrawal dates than other courses. You should consult the course outline.



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 mcgill.ca/students/advising.



Note for the Faculty of Law: You are encouraged to meet with a student adviser before withdrawing from a course (no refund).



Note for Graduate and Postdoctoral Studies: To add/drop/withdraw a course after the deadline has passed, you must submit a course change Request form, available at [Student Records Forms](#), to your department. If the department supports the request, the department will forward the request to the Management of Academic Records Office, Enrolment Services, along with the recommendation from the department Graduate Program Director (GPD).

Graduate students who wish to withdraw from McGill should consult [section 1.3.8: University Withdrawal](#), and submit a "Request for a University Withdrawal" form, available at [Student Records Forms](#). Please note that this form is sent to the Management of Academic Records Office, Enrolment Services.



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

1. To withdraw from required or complementary courses after the withdrawal (without refund) deadline, you may need to obtain permission from your adviser, and you must fill out and submit a course withdrawal form, available from your faculty Student Affairs Office. (Note 1 is not applicable to Medicine, Dentistry, and Nursing. For information, you should refer to your Faculty/School section in this publication).
2. It is solely your responsibility to initiate a course withdrawal on *Minerva*. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you withdraw on *Minerva* is the official date of withdrawal, even if you had stopped attending lectures earlier.
3. You may still withdraw from a course after the course change deadline without academic penalty, provided that you do so within the appropriate withdrawal deadlines for the term (see deadlines above). Otherwise, after this time, your name will continue to appear on the class list and grade reports and, in the event that you do not take the exam, you will be given a J grade.
4. Fee refunds, if any, will be in accordance with [section 1.4.7: Fees and Withdrawal from the University](#).



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



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

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



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

1.3.4 Class Schedule

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

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

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

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

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



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



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

1.3.5 Changing Programs within Selected Faculties

If you are registered in a program in one of the following faculties, you may add or change programs within your faculty using Minerva (mcgill.ca/minerva) under the *Student Records* Menu:

- Arts
- Science (see Note 2 below)
- Bachelor of Arts and Science degree
- Management (certain programs only)
- Education (certain programs only)
- Engineering (certain programs only; see below)

Certain restrictions apply. In all cases, you should consult the appropriate adviser for approval before making any changes and for faculty-specific regulations concerning program changes.

You are not permitted to use Minerva to change your degree (with the exception of Engineering, as below) or to select a program in another faculty or school.



Note for Arts, Science, or B.A. & Sc. freshman programs (97 or more credits): You cannot change your freshman program on Minerva, but may change options within your freshman program where options are available. Once you have been promoted from the freshman year you will be able to change departmental programs using Minerva as outlined in the note below.



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 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 (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 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: To change or to add a music major, students must submit an Intra-Faculty Transfer application on [Minerva](#) before the assigned deadlines. For specific program details: mcgill.ca/music/student-resources/undergraduates/academic-resources/program-transfer-and-readmission. B.Mus. students who wish to add a major in another faculty can find more information on this website: mcgill.ca/music/programsdouble. B.Mus. students can also pursue a music or a non-music minor alongside their degree. A few music minors are open to students from other faculties. Visit the music minor website for more information: mcgill.ca/music/programs/minor.

1.3.6 Interfaculty Transfer

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

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



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

1.3.7 Quebec Inter-University Transfer Agreement

1.3.7.1 Quebec Inter-University Transfer Agreement: McGill Students

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

If you are a regular McGill undergraduate or graduate degree, diploma, or certificate student, you may register, with your faculty's permission, at any Quebec university for 3—or in some cases 6—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 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 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 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 'B-'.



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 university and you want to take courses at McGill using the Quebec Inter-University Transfer (IUT) agreement, you must initiate an online application to request the required authorizations at mcgill.ca/students/iut. You should also refer to your home university website for regulations on the number of credits allowed, as well as the policies for transferring the credits.



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



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



Note for Continuing Studies: If you are a Visiting IUT Student and your application has been approved, you must register in-person, by appointment only (see [University Regulations & Resources > Continuing Studies > Registration for Continuing Studies Students > Other Ways to Register > In-Person Registration](#)).

McGill will automatically submit your grades for any completed courses to your home university.

1.3.8 University Withdrawal

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

1.3.8.1 Student's Responsibility

It is solely your responsibility to initiate University withdrawal by submitting a form or writing to your Student Affairs Office. Neither notification of the course instructor nor discontinuing class attendance is sufficient. The date on which you dropped or withdrew from all courses is entered on Minerva and is the official date of withdrawal, even if you had stopped attending lectures earlier.



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



Note for Graduate and Postdoctoral Studies: If you are considering withdrawing from the University, you are strongly encouraged to consult with your academic unit before making a final decision. The date the request for withdrawal is submitted is the official date of withdrawal. Students who do not register in a given term are subject to University withdrawal. If you wish to return to complete your program in a later term, you must submit a [Request for Readmission](#).



Note for Physical and Occupational Therapy: If you are blocked from withdrawing from course(s) in Minerva, you must contact the Student Affairs Office, who will provide you with the proper forms.

1.3.8.2 Deadlines for University Withdrawal

If you decide not to attend the term(s) you are registered in, you must officially withdraw from the University within the deadlines indicated. See Withdrawal (W) deadline dates at mcgill.ca/importantdates. If you *drop* all of your courses between September 1 and the Fall add/drop deadline, or between January 1 and the Winter add/drop deadline, you are withdrawn from the University. If you *withdraw* from all of your courses by the Fall or Winter withdrawal deadlines you are withdrawn from the University.

To withdraw from the University by the deadlines indicated below, you must drop or withdraw from all courses on [Minerva](#). 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**.

To return to your studies, you must follow the procedures for readmission. For more information, refer to [University Regulations & Resources > Undergraduate > Registration > section 1.3.10: Readmission](#).

1.3.8.2.1 Fall Term

From September 1 to September 13, 2022 a *drop* of all courses constitutes a University withdrawal with refund (minus \$200 for returning students and the registration deposit for new students). After September 13 and until the deadlines indicated below, you may *withdraw* from all courses to effect a University withdrawal.

- Deadline for University withdrawal with refund (minus \$200 for returning students and the registration deposit for new students): **Tuesday, September 20, 2022**
- Deadline for University withdrawal without refund: **Tuesday, October 25, 2022**

1.3.8.2.2 Winter Term

From January 1 to January 17, 2023 a *drop* of all courses constitutes a University withdrawal with refund (minus \$200 for returning students and the registration deposit for new students). After January 17 and until the deadlines indicated below, you may *withdraw* from all courses to effect a University withdrawal.

- Deadline for University withdrawal with refund (minus \$200 for returning students and the registration deposit for new students): **Tuesday, January 24, 2023**
- Deadline for University withdrawal without refund: **Tuesday, March 7, 2023**



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



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



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



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



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



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



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

1.3.8.3 Consequences of University Withdrawal

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

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

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



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



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


1.3.9 Deferred Admission


To defer your offer of admission to McGill you must submit the [designated web form](#) no later than **July 31** for the Fall term and **December 31** for the Winter term. For further information, contact the [Deferral Coordinator](#).


Several conditions apply for deferral and these will be communicated to you once the University receives your official request. The University is only able to approve a limited number of admissions deferral requests in any given term. You must pay your confirmation deposit before you may request an admission deferral.

If you have accepted your offer of admission and registered for courses and now want to defer your admission, you must drop all courses via [Minerva](#) by **the above deadlines** and before submitting a deferral request. If the University grants your request for deferral, your registration deposit will be transferred to the deferred term.

If you do not request a deferral by the above deadlines, you will have to reapply for the next available admission term. If you are a registered student and you withdraw after the deadline, you must request readmission through your faculty. For more details, see [section 1.3.10: Readmission](#).

 **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 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 a university withdrawal from a Fall and/or Winter term of an academic year, you must apply for readmission using [Minerva's Faculty Transfer/Readmission Menu](#). Readmission is not automatic or guaranteed. In your application, state the reasons for your absence from the University and give a summary of your activities during that period.


Newly admitted students are only eligible for readmission if they withdrew from the University after the withdrawal with refund deadline.


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.


We encourage students to complete their degrees, particularly those who are close to completion. Students who are readmitted after a period of absence are normally subject to the program and degree requirements in effect at the time of readmission. In such cases, determining the degree requirements for completion is at the discretion of the readmitting faculty.


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 and deadlines, see mcgill.ca/student-records/transfer-readmission/.

 **Note for International students:** Certain rules apply to international student fees upon readmission after a break in enrolment. Please refer to the [Student Accounts website](#) for details.

 **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 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.

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

 **Note for Medicine and Health Sciences:** 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:

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. This option will not be added to your record after the course change (add/drop) deadline. Courses that are taken to satisfy your engineering program requirements or minor requirements cannot be designated as "extra".

1.3.11.4.2 Prerequisites and Corequisites

You must ensure that you have completed any course prerequisite(s) and/or corequisite(s) before course registration. If you have registered for a course and did not satisfy the prerequisite(s) and/or corequisite(s), the course may be dropped from your record automatically by Minerva.

If you received advanced credit(s)/exemption(s) or passed a placement exam for a course and are blocked from registration because of a prerequisite or corequisite error, you must go to your department/school in order to receive the appropriate permit override.

1.3.11.5 Management

Management students should give particular notice to the following sections under [Desautels Faculty of Management > Undergraduate](#):

- [section 9.7: Grading and Credit](#)
- [Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.1: BCom Program Credit Structure: General Management Program \(Concentrations\)](#)
- [Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.2: BCom Program Credit Structure: Major or Honours Programs](#)
- [Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.4: Management Core](#)

1.3.11.6 Science

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

mcgill.ca/science/student

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 for credit any course, 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 the 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.

1.3.12 Summer Term/Summer Studies

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

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

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

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

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

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

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

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

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

1.4 Fees

The information in this publication was updated in January 2022. **The University reserves the right to make changes without notice in the published scale of fees.**

Further information regarding fees can be found on the Student Accounts website:

mcgill.ca/student-accounts/tuition-fees/tuition-and-fees-tables-and-rates.

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



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

1.4.1 Access to Fee Information

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

1.4.2 Billing and Due Dates

The following sections contain information regarding billing and due dates.

1.4.2.1 Confirmation of Acceptance Deposit

When you are admitted to the University, you are required to confirm your acceptance of the offer of admission on Minerva under the *Applicant Menu* at mcgill.ca/minerva and you must pay the required deposit (may vary by program) by credit card (AMEX, Visa, or MasterCard) at that time.

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](#). Charges or payments that occur after the statement date appear on the next month's statement, but you can view them immediately on the *Account Summary by Term* under the *Student Accounts Menu* on Minerva (this is the online dynamic account balance view).

Failure to check your McGill email on a regular basis in no way warrants the cancellation of interest charges and/or late payment fees. Refer to the [Student Accounts website](#) for information on payment due dates.

Term	Payment Due Date
Fall Term	
Returning and new students	August 31, 2022
Winter Term	

Term	Payment Due Date
Returning and new students	January 5, 2023

Late Payment Fees: If you have an outstanding balance greater than \$100 on your account on October 31 (February 28 for the Winter term), you are charged a late payment fee as per the fee schedule found at [section 1.4.6: Other Fees](#). When a student has a student aid deferral, government aid deferral, or graduate funding deferral that has ended, their next e-bill will show that there is no longer a deferral in effect. Should the balance not be paid in full by the payment due date on this bill, the late penalty fee will be charged in addition to interest.

1.4.2.3 Guest Access on Minerva

You may choose to give access privileges to a guest on Minerva. These privileges include viewing e-bills/account summaries, tax receipts, and e-payment.

The mcgill.ca/student-accounts/parents-and-sponsors/guest-access web page describes how to set up this access. You must provide certain information about the individual to whom you wish to grant access to your fee-related information. The guest will be contacted by email and provided with a link to use within a designated time period.

You can revoke guest access privileges at any time.

Note that [Service Point](#) staff may respond to questions from your authorized guest regarding the information to which they have been given access.

If you do not want to give a guest access privileges to Minerva, you can enter an “Alternate Student Billing” email address on Minerva to which Student Accounts will send a copy of the monthly e-bill notification.

You should not share your PIN (personal identification number) with anyone, including a guest on Minerva. *Guest Access* allows your guest to view your account information without knowing your PIN.

1.4.2.4 Payment Procedures

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

1.4.3 Tuition Fees

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



Note: Students who are required to submit documentation and who do not do so by the stipulated deadlines (December 1 – Fall; April 1 – Winter; August 1 – Summer) are billed at the non-Quebec Canadian or the international rate, depending on the documentation submitted. Students who are not automatically granted a fee deferral based on the University’s evaluation of their personal information at admission, and who expect their fee residency status to change within the term—contingent on appropriate supporting documentation—must contact either [Service Point](#) or [SCS Client Services](#) (School of Continuing Studies students only) to discuss what documentation is still outstanding to support their situation. These offices will decide if a fee deferral is warranted. No prior interest charges or late payment fines will be reversed; therefore, you should ensure your request is submitted before the first fee payment for the term is due.

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

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

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 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 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 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 mcgill.ca/hr/employee-relations/policies-procedures.

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

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

1.4.4 Compulsory Fees

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

1.4.4.1 Student Services Fees

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

These fees are complemented by revenue from the Quebec government, the University, and the generosity of donors. They support: the Student Wellness Hub, Counselling and Tutorial Services; the Office of Religious and Spiritual Life; Career Planning Service (CaPS); Scholarships and Student Aid; International Student Services; the Office for Student Accessibility & Achievement; Campus Life & Engagement (including assistance for francophone students); and the First Peoples' House. Please refer to [section 1.13.3: Student Services – Downtown Campus](#) and [section 1.13.4: Student Services – Macdonald Campus](#) for details on these services.

1.4.4.2 Athletics and Recreation Fee

The Athletics and Recreation fee supports programs offered on the Downtown and Macdonald campuses. The fee provides access to most athletics facilities; however, registration to fitness and recreation courses, intramural sports, pay-as-you-go programs, and/or the Fitness Centre carries a supplemental charge. Please consult the Athletics and Recreation website at mcgillathletics.ca for further information.

1.4.4.3 Student Society Fees

Student Society fees are collected on behalf of student organizations and are compulsory. These fees must be approved by the student body through fee referenda according to the constitutional rules of the association or society.

Students may vote on changes to Student Society fees during either the Spring or Fall referendum periods.

For Canadian students, the Student Society fees include health and dental insurance. For international students, the Student Society fees include a dental insurance plan. International students are required to participate in the University's compulsory International Health Insurance (IHI) plan. For more information, please visit International Health Insurance at mcgill.ca/internationalstudents/health.

Rates for the current year may be found at mcgill.ca/student-accounts.

1.4.5 Administrative Charges

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

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

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

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

1.4.7.1 Fee Refund Deadlines

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



Note for Graduate and Postdoctoral Studies: Generally, there are no refunds for tuition and fees charged for a Summer term course from which you have withdrawn. For newly admitted graduate students who have withdrawn from a Summer Term of Residence, see [University Regulations & Resources](#) > [Graduate](#) > [Regulations](#) > [Registration](#) > : [Summer Registration](#) for information about a potential fee refund.

1.4.7.1.1 Fall Term – up to and including September 20

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

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

1.4.7.1.2 Fall Term – after September 20

No refund.

1.4.7.1.3 Winter Term – up to and including January 24

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

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

1.4.7.1.4 Winter Term – after January 24

No refund.

* Includes tuition and compulsory student fees.

To discuss the refund policy applicable to a special case, undergraduate students should contact their faculty Student Affairs Office (Associate Dean or Director; see [section 1.11.3: Contact Information for Faculty & School Student Affairs Offices](#)) and graduate students should contact their departmental Graduate Program Director or Graduate Program Coordinator (see mcgill.ca/gps/contact for contact information).

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 of 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 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 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
Website: 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 (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 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 undergraduate students and students in non-research graduate programs 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:

Quebec Residents may need to reprove their fee status if they have been absent (i.e. not enrolled) for more than 2 terms (not counting the Summer term). Students may verify their legal status in Minerva (select the appropriate term) to confirm that the QC residency status is still active. *Terms for which students are recorded as being away on an officially approved leave of absence are not counted as enrolment terms.*

International students who are charged fees at the self-financed rate (all undergraduate or graduate level non-research programs) who are absent (i.e. not enrolled) for more than one term (excluding the summer), will be charged the tuition rate in effect for newly admitted students in the term in which they resume their studies. *Note that a term of withdrawal from the University is included in the calculation of the break in enrolment when students are not charged tuition for that term. Terms for which students are registered on an officially approved leave of absence, exchange or study away program are not calculated as part of a break in enrolment.* This policy is not applicable to Visiting and Special students as international students in these categories always pay the fees of the new academic year.

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 mcgill.ca/student-accounts/tuition-fees/general-tuition-and-fees-information/exchange-senior-citizens-part-time-and-double-program for further details.

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

1.4.8.5 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 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. As such, you may reduce your payment amount by the total amount of your awards. This will avoid unnecessary credit balances to be refunded. If you do not meet the requirements of the scholarship, the funds will be returned to the external body.

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

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.

1.4.9.4 Tuition & Fees – Payment Deferral

Students with no prior outstanding tuition/fees may request that payment(s) of tuition and fees be deferred based on self-reported demonstrated sources of funding from the University, government or other external agencies. Such requests will be granted on a term by term basis during which time no interest or late payment charges will be applied on the fees covered by the deferral while the deferral is effective. Once the deferral has ended, notification will be sent and fees will be due in full by the next payment deadline, otherwise interest and late payment fees will apply. The length of time that a fee deferral is in effect will depend on the nature of the fee deferral. For the list of deferrals and their duration, please refer to the [Student Accounts](#) website.

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

The Minerva application for deferral of tuition fees form is available in mid-July for the Fall term (mid-December for the Winter, and early April for the Summer). Students who apply up to the fee deadline can be assured that the deferral will be in effect prior to interest being charged on their account. Note that students who apply late may not request cancellation of interest.

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

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

1.4.10 Tax Slips/Receipts

T4A, Relevé 1, T2202, and Relevé 8 slips are issued on [minerva](#) under the *Student Accounts Menu* by the end of February each year. Note that a Quebec permanent code, a social insurance number, and a valid mailing address are required to be transmitted to *Revenu Québec* by the University as part of its tax reporting for both the Relevé 1 and the Relevé 8 slips; therefore, it is highly recommended that if you expect to be completing a Quebec income tax return, you provide this information to the University upon registration. More information on these slips is available at [mcgill.ca/student-accounts/your-account/tax-information](#).

1.4.11 Yearly Fees and Charges by Faculty

Tuition fees at the undergraduate level are based on the number of credits you take.

Please consult the Student Accounts website at [mcgill.ca/student-accounts](#) for tables of fees by residency status and faculty.

1.5 Student Records

Students must inform themselves of University rules and regulations and keep abreast of any changes that may occur. The *Student Records* section of this publication contains important details pertaining to academic standing, grading and grade point averages (GPA), and transcripts, as well as other topics, and should be periodically consulted.

1.5.1 Academic Standing

When you first start your program, and in your first term, you are deemed to be in Satisfactory Standing. At the end of each term, after final grades have been submitted, your academic standing in your program is determined based on your grade point average (GPA) calculations in the current and previous terms and your faculty's regulations.

Academic Standing codes are generated in January for the Fall term, in May for the Winter term, and in September for the Summer term, and are displayed on your McGill official and unofficial transcripts. If you receive Unsatisfactory Standing, you may not continue in your program, register for any future terms and must apply for readmission to your faculty. Note that readmission is not automatic or guaranteed. Consult the appropriate section of this publication for the regulations on Academic Standing for your faculty.

- [section 1.5.1.1: Academic Standing: Desautels Faculty of Management](#)
- [section 1.5.1.2: Academic Standing: Faculty of Agricultural and Environmental Sciences](#)
- [section 1.5.1.3: Academic Standing: Faculties of Arts and Science \(including B.A. & Sc.\)](#)
- [section 1.5.1.4: Academic Standing: Faculty of Education](#)
- [section 1.5.1.5: Academic Standing: Faculty of Engineering](#)
- [section 1.5.1.6: Academic Standing: Faculty of Law](#)
- [section 1.5.1.7: Academic Standing: School of Continuing Studies](#)
- [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* > [section 9.6.9: Academic Standing](#).

1.5.1.2 Academic Standing: Faculty of Agricultural and Environmental Sciences

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

Farm Management and Technology students, see [Faculty of Agricultural and Environmental Sciences](#) > *Undergraduate* > *Farm Management and Technology Program* > [section 2.7.3.5: Academic Rules and Information – FMT](#).

1.5.1.3 Academic Standing: Faculties of Arts and Science (including B.A. & Sc.)

Your Academic Standing is based primarily on your cumulative grade point average (CGPA), but may also be affected by your term grade point average (TGPA). The Standing in each term determines if you are allowed to continue your studies in the next term, and if any conditions will be attached to your registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January, i.e., if you have deferred examinations or Fall/Winter spanned courses, grades for those courses don't affect your Fall Academic Standing—they will only affect your Fall TGPA. Therefore, Academic Standings for the Fall term are designated as *Interim*. Note that Interim Standings do not appear on your official transcript. Consult the appropriate section of this publication for the regulations on Interim Standing decisions.

1.5.1.3.1 Satisfactory/Interim Satisfactory Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Interim Satisfactory or Satisfactory Standing:

- you may continue in your program;
- you have a CGPA of 2.00 or greater.

1.5.1.3.2 Probationary/Interim Probationary Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Interim Probationary 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 a departmental adviser before withdrawal deadlines about your course selection for the Winter term;
- you should see your Faculty adviser to discuss degree planning.

If you are in Probationary Standing:

- you may continue in your program;
- you must carry a reduced load (maximum 14 credits per term);
- you must raise your CGPA to return to Satisfactory Standing;
- you should see your departmental adviser about your course selection;
- you should see your Faculty adviser to discuss degree planning.

You will be placed in Probationary Standing:

- if your CGPA falls between 1.50 and 1.99 and if you were previously in Satisfactory Standing;
- if your CGPA falls between 1.50 and 1.99 and your TGPA in Fall or Winter is 2.50 or higher, and if you were previously in probationary or Interim Unsatisfactory Standing;
- if you were previously in Unsatisfactory Readmitted Standing and have satisfied the relevant conditions specified in your letter of readmission, but your CGPA is still less than 2.00.

1.5.1.3.3 Unsatisfactory Readmitted Standing: Faculties of Arts and Science (including B.A. & Sc.)

If you are in Unsatisfactory Readmitted Standing:

- you were previously in Unsatisfactory Standing and were readmitted by your Faculty or the Committee on Student Standing;
- you must meet the conditions specified in your letter of readmission to be allowed to continue in your program;
- you must carry a reduced load (maximum 14 credits per term) — a lower limit may be specified in your conditions of readmission;
- you should see your departmental adviser to discuss your course selection;
- you should see your Faculty adviser to discuss degree planning.

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 mcgill.ca/oasis/students/seeking-readmission. For **Science** (including B.A. & Sc.) see 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.: Associate Dean, Student Affairs, Science

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.: Associate Dean, Student Affairs, Science

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 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* > [section 5.6.11: 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 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 your CGPA is less than 2.00, you may continue with your studies but will remain in Probationary Standing until you obtain a CGPA of 2.00 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.

Students in Unsatisfactory Standing after the Winter term:

- You must withdraw from the Faculty of Engineering for a minimum of one term.

For more information about Academic Standing, see mcgill.ca/engineering/students/undergraduate/advising-programs/academic-standing.

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 in the Schulich School of Music](#).

1.5.2 Credit System

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

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



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



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



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



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



Note for Summer Studies: For Summer courses, 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 mcgill.ca/spot/programs.

Instructors may submit final grades as either letter grades or in percentages, but the official grade in each course, which displays on the transcript is the letter grade. Where appropriate, a class average appears on transcripts expressed as the letter grade most representative of the class performance. In such cases, the class average is calculated for courses, where the total number of grades in all of its course sections is 25 or more, and the grades have a grade point (e.g. grades of S, U or P don't have grade points).

Since Fall 2002, the University has only used letter grades on transcripts and verification forms.

Grades A through C represent satisfactory passes, D a conditional (non-continuation) pass, and F a failure. Certain courses have been approved for Pass/Fail (P/F) grading. Students may also designate elective courses to be graded under the S/U option. See [Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#).



Policy on Pass/Fail Grading:

For a course to be graded P/F, a proposal must be approved by the Program Director, approved by the Faculty Curriculum Committee, and approved by the Subcommittee on Courses and Teaching Programs (SCTP). Courses that are approved to be graded P/F must indicate this in the course syllabus. Pass/Fail grading applies to all students in a course section and cannot be selectively added to individual students.

Grades of Pass are not included in the GPA calculation and as such are not normally applied to required courses. P/F courses are not included in GPA calculations but are included in the count of completed credits for determining eligibility for scholarships and awards.

Please refer to the Satisfactory/Unsatisfactory option for information on that grading option for students.

You must obtain a grade of C or better in courses that you take to fulfil program requirements. You may not register in a course unless you have passed all the prerequisite courses with a grade of C or better, except by written permission of the appropriate department chair.

Grades	Grade Points	Numerical Scale of Grades
A	4.0	85 – 100%
A-	3.7	80 – 84%
B+	3.3	75 – 79%
B	3.0	70 – 74%
B-	2.7	65 – 69%
C+	2.3	60 – 64%
C	2.0	55 – 59%
D	1.0	50 – 54%
F (Fail)	0	0 – 49%



Note for Engineering: The Faculty of Engineering does not use this numeric scale. See *Note for Engineering* below.



Note for Law: Faculty of Law does not use this numeric scale.

The University assigns grade points to letter grades according to the table above. Your Academic Standing (e.g. satisfactory, probationary), which is your academic status at the end of each term, is determined by a grade point average (GPA), which is calculated by multiplying the course credit by the grade points, and dividing the sum by the total course GPA credits. The GPA result is truncated by two decimal points and not rounded up to the nearest decimal point. For example, a GPA of 3.596 will display on the transcript as 3.59 and is NOT rounded up to 3.60.

GPA credits are the credits of courses with grades that are assigned grade points.

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

The *term grade point average* (TGPA) is the GPA for a given term calculated using all the applicable courses at the same level in that term. The *cumulative grade point average* (CGPA) is the GPA calculated using your entire record of applicable courses at McGill at the same level; if you change levels, e.g., from undergraduate to graduate, the CGPA starts again.

This policy took effect in January 2003. Prior to January 2003, if your degree program had changed, e.g., from B.Sc. to B.A., the CGPA calculation restarted again. For students with academic information prior to Fall 2002, who are registered in a different program or in a different level post-Fall 2002, the transcript displays a special message regarding the CGPA restarting.

If you repeat courses, all final grades are included in the GPA calculation. Therefore, grades of D or F continue to be used in the CGPA calculation even after you repeat the course or if you take a supplemental examination. Note that credits are only granted once for a repeated course regardless of the passing grade.

You must obtain a minimum CGPA of 2.00 to be considered for graduation with a McGill degree.



Note: During the first week of lectures, each instructor will provide you with a written course outline. This information should include, where appropriate:

- whether there will be a final examination in the course;
- how term work will affect the final grade in the course;
- how term work will be distributed through the term;
- whether there will be a supplemental examination in the course, and if so, whether the supplemental exam will be worth 100% of the supplemental grade, or whether term work will be included in the supplemental grade (courses with formal final examinations *must* have supplementals);
- whether students with grades of D, F, J, or U will have the option of submitting additional work, and, if so, how the supplemental grade will be calculated with the extra work (applicable only to students in Science and B.A. & Sc.).



Note for Engineering: In the Faculty of Engineering, letter grades are assigned according to the grading scheme adopted by the professor in charge of a particular course. This may not correspond to grades indicated in the “Numerical Scale of Grades” column in *Grading and Grade Point Averages*. A grade of D indicates marginal performance which is acceptable only for Complementary Studies courses (i.e., Group A *Impact of Technology on Society* and Group B *Humanities and Social Sciences, Management Studies and Law*), Natural Science Complementary Courses (for Computer Engineering and Software Engineering students from CEGEP), and Elective Courses (for Mechanical Engineering students from CEGEP and for Architecture students). A grade of D is not acceptable for required (core) courses (including Year 0 (Freshman) math and science courses), technical complementary courses, laboratory complementary courses, or courses in any other category of the Engineering programs. Individual departments/schools will decide if a student with a D in a prerequisite course(s) may take the subsequent course.

Grades have the following designations:

A, A-	Very Good
B+, B, B-	Good
C+, C	Satisfactory
D	Conditional Pass
F	Fail

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



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

Other Grades

J	—	unexcused absence (failed); the student is registered for a course but does not write the final examination or do other required work; calculated as a failure in the TGPA and CGPA
K	—	incomplete; instructor has extended the deadline for submission of work in a course
KE or K*	—	further extension granted for submission of work in a course, approval from the Faculty SAO may be required
KF	—	failed to meet the extended deadline for submission of work in a course; calculated as a failure in TGPA and CGPA
KK	—	completion requirement waived; not calculated in TGPA or CGPA; Associate Dean approval is required.
L	—	approved to write a deferred examination in a course
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 Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option)
U	—	unsatisfactory; equivalent to D or F in an elective course; not calculated in TGPA or CGPA (See Courses Taken under the Satisfactory/Unsatisfactory (S/U) Option)
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.)

Other Grades

WL	—	faculty permission to withdraw from a deferred examination; not calculated in TGPA or CGPA
NA or &&	—	grade not yet available
W- - or - -	—	no grade; student withdrew from the University, not calculated in TGPA or CGPA (applicable only to courses taken pre-Fall 2002)



Note for Physical and Occupational Therapy: Grades of S/U are not applicable.



Note for Medicine: Refer to mcgill.ca/ugme/policies-procedures/ugme-student-assessment-policy and mcgill.ca/ugme/policies-procedures/medical-student-performance-record.

1.5.3.2 Unexcused Absences

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

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



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



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



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

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

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

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

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



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



Note for Graduate and Postdoctoral Studies: Only options 2 and 3 above are applicable to graduate students. Students wishing to appeal a J grade should write to the Associate Registrar, Management of Academic Records.

1.5.4 Transcript of Academic Record

The proceeding sections contain information on transcripts and other details regarding academic records.

1.5.4.1 Transcript of Academic Record: General Information

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

The University issues official transcripts in electronic or paper format. Requests for both electronic official (**eTranscripts**) and paper transcripts are submitted in [Minerva](#).

eTranscript PDFs are sent the same-day in as little as 15 minutes (providing there are no holds on your student account and no attachments to review) via the National Student Clearing House, a US-based non-profit organization and leading provider of trusted, educational data exchange and verification services. A minimal service fee applies.

Paper official transcripts are normally processed in 3 to 5 working days (5 to 7 during peak periods) and mailed by regular Canada Post mail to the address(es) indicated on the request. Paper transcripts are free of charge for currently registered students. Transcript fees apply for alumni and former students. Requests for archived transcripts (pre-1972) have a longer processing time.

Paper official transcripts are printed on secure paper that cannot be copied. eTranscripts are digitally signed and certified PDF documents that cannot be copied.

For more information on requesting official transcripts, refer to [Official Transcripts](#).

Note: The University may not be held responsible for the loss or delay of transcripts in the mail.

Note: You cannot submit a transcript request in Minerva if you have **holds** on your record (e.g., accounting, registrar, library, etc.). Please verify the top of your unofficial transcript in [Minerva](#) for any holds.

1.5.4.2 Unofficial Transcripts

If you require a copy of your student record, access Minerva ([mcgill.ca/minerva](#)) to view and print an unofficial transcript. This applies to records from 1976 to the present. For pre-1976 records, your transcript is archived and you must order an official transcript. See [section 1.5.4.3: Official Transcripts](#).

1.5.4.2.1 Verification of Student Records: Unofficial Transcripts

Subject to [section 1.5.8: Changes to Student Records after Normal Deadlines](#), you are responsible for verifying your academic record on [Minerva](#) using the unofficial transcript to ensure that you are registered in the proper courses, and that the correct program information and expected term of graduation appear on your record.

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



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



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 [mcgill.ca/student-records/transcripts](#).

Currently Registered Students: Use [Minerva](#) to order an official transcript at *Student Menu > Student Records Menu > Request/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/Official Transcript* and will require login credentials. Please contact the IT Service Desk ([mcgill.ca/it](#)) to obtain your McGill ID & Minerva PIN.

Alumni or former students who were registered or graduated prior to 1972 (archived records): You must submit an online *Request for Archived Official Transcript* located at: [mcgill.ca/student-records/transcripts/printed-transcripts](#) and will be required to provide a copy of a government-issued Photo ID.



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

1.5.4.4 Course Numbering on the Transcript

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

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

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

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

A list of the former teaching unit codes and their subject code equivalents is available at [mcgill.ca/student-records/transcripts/key](#).

For information on our current course numbering, see [University Regulations & Resources > Undergraduate > Registration > Course Information and Regulations > section 1.3.2.1: Course Numbering](#).



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

280-211X = Intro. to Financial Accounting in Fall term (X);

629-202Y = Micro Economics in Winter term (Y);

660-221Z = Project Management extending for two terms, Fall and Winter (Z).

1.5.5 Incomplete Courses

If the instructor decides there is sufficient reason to permit a delay in the submission of required term work, they may extend the deadline for your work until after the end of the course. In this case, the instructor will submit a grade of K (incomplete).



Note: If the instructor submits a grade of K, he or she will also indicate the date by which you must complete the work. Consult the faculty sections for maximum extensions.



Note: If the instructor submits a new grade within the deadline, both the new grade and the grade of K will appear on your verification forms and unofficial and advising transcript. However, the new grade will replace the K on your official transcript.



Note: If you do not complete the required work before the deadline, a grade of KF will be updated on your record. A KF denotes a failed course and is calculated in the TGPA and CGPA as an F.



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



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

Students graduating in June

Fall, Winter, and multi-term courses	April 30
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Non-graduating students

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

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

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

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

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

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

Requests must be made to the instructor for consideration. If your request is approved, the instructor will inform you of the extension deadline, and submit a grade of K (incomplete). However, it is important that you also see a Faculty adviser in Dawson Hall to talk about your options and the effects that your request may have on your studies. For more information, see mcgill.ca/students/advising.



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

Students graduating in June

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

Non-graduating students

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

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

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

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



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



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

1.5.6 Transfer Credits

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

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

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

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

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

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

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

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



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



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



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



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

1.5.6.1 Advanced Standing Transfer Credits

Students who have successfully completed their high school studies, including courses or programs that may result in the awarding of Advanced Standing and exemptions, such as the International Baccalaureate, Advanced Placement examinations, GCE A-Levels, French Baccalaureate, and other qualifications, must declare these studies upon applying for admission to McGill University. Advanced Standing and exemptions will be given for these completed studies.

Students who have been granted advanced standing for the International Baccalaureate, Advanced Placement examinations, GCE A-Levels, French Baccalaureate, and other qualifications, but who wish to complete a four-year undergraduate program at McGill, will be permitted to do so, with the appropriate limitations on the repetition of courses for which they have received exemptions. This gives students with Advanced Standing the option of completing 120 McGill credits.

Interested students should contact their Faculty or School advisers.

1.5.7 Tracking Student Progress: myProgress

1.5.7.1 myProgress

myProgress is a web-based tool that allows students to track their progress towards completion of their undergraduate degree. The tool offers an overview of the degree requirements a student has completed in relation to those remaining before being able to apply for graduation.

Students admitted to a McGill undergraduate program as of Fall 2019 will have access to myProgress. It is currently open to select faculties only; please refer to the following websites for more information.

- **Undergraduate students:** please refer to the [Undergraduate myProgress website](#).
- **Graduate students:** please refer to the [Graduate myProgress website](#).

1.5.7.2 Degree Evaluation Tool



Note: The Degree Evaluation tool is currently available only to students in certain faculties admitted *prior to Fall 2019*.

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

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

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

Degree Evaluation is an advising tool only. A Degree Evaluation Report that indicates program requirements have been satisfied does **not** constitute approval to graduate. For details regarding the Degree Evaluation tool, including *Reading a Degree Evaluation Report*, click [here](#).



Note for Medicine, Dentistry, and Nursing: The Degree Evaluation tool is not used in the Faculties of Medicine and Health Sciences, Dental Medicine and Oral Health Sciences, and the Ingram School of Nursing.

1.5.8 Changes to Student Records after Normal Deadlines

1.5.8.1 Student Record Changes

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

1.5.8.2 Registrar Deadlines

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

1.5.8.3 Before Registrar Deadlines

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



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

1.5.8.4 After Registrar Deadlines

The University does not normally consider a change requested after the [section 1.5.8.2: Registrar Deadlines](#) have passed. In situations where there are extraordinary personal or extraordinary academic circumstances that could not have been foreseen prior to these deadlines, you may formally request a student record change from your Associate Dean or Director. If your Associate Dean or Director approves the request, the change will be processed according to faculty and Enrolment Services student record procedures. You may be assessed a fee for a change requested after Registrar deadlines. For all changes other than grade changes, the faculty will file full documentation that supports the extraordinary circumstances with Enrolment Services.



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

1.5.8.5 Fee Assessment Consequences

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

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

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

Note that your faculty/school or Graduate and Postdoctoral Studies does not handle changes related to your citizenship and/or immigration or fee exemption status; see [section 1.2.3.1: Why Does McGill Collect Legal Documents from You?](#) You may be assessed a fee for a change requested after the submission deadline.

1.6 Examinations: General Information



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

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

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

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

As per the exam regulations, you must have your valid McGill student ID card with you to write an in person examination. If you have lost your McGill ID, please provide a government issued ID with your full name written on it. Verification of your ID will be made at the time of your exam.

As per the [Code of Conduct and Disciplinary Procedures](#), Article 17, cheating in any examination is considered a serious offence that could lead to expulsion from the University. Students are not permitted to have in their possession, or to use, any unauthorized materials during an examination. This includes electronic devices such as cell phones, iPods, MP3 players, PDAs, smart watches, and other web-access devices. Unauthorized items used during an exam will be reported to the Disciplinary Officer.

Responses on multiple-choice examinations are normally checked by the Exam Security Computer Monitoring Program. The program detects pairs of students with unusually similar answer patterns on multiple-choice examinations. Data generated by the program can be used as admissible evidence either to initiate or corroborate an investigation or a charge of cheating under Section 17 of the [Code of Student Conduct and Disciplinary Procedures](#).

All students are responsible for familiarizing themselves with the University Student Assessment Policy (available on the [Secretariat website](#)) and the [Code of Student Conduct and Disciplinary Procedures](#) (available at mcgill.ca/exams/regulations).

You can find information about issues related to academic integrity at mcgill.ca/students/srr/honest.



Note for Engineering Students: You should also refer to the Engineering website for more information at mcgill.ca/engineering/students/undergraduate/courses-registration/exams-assessment.



Note for Law Students: You should also refer to the Law website for more information at mcgill.ca/law-studies/courses/exams.



Note for Medicine: Refer to mcgill.ca/ugme/policies-procedures/examinations.



Note for Continuing Studies Students: You should consult the academic sections of this publication for particular regulations.

1.6.1 Examination Accommodations for Students registered with the Office for Student Accessibility & Achievement

Students registered with the Office for Student Accessibility & Achievement with an active accommodation plan may register for accommodations for all tests, quizzes, exams, and finals. For more information see: mcgill.ca/osd/student-resources/forms/exam-sign.

1.6.2 Credit by Examination

In certain exceptional cases and in certain faculties, you can apply to the Associate Dean or Director to write a final examination in order to obtain credit in a course that you were not registered in. This is possible only in those courses where there is no other assessment except the final examination.

1.6.3 Final Examinations

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



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



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

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

1.6.3.1 Final Examinations: University Regulations Concerning Final Examinations

1.6.3.1.1 Preamble

The objectives of these regulations are as follows:

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

1.6.3.1.2 Regulations

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

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



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

It is the responsibility of the student to confirm the date, time, format for online or location of an in person examination by checking examination schedules posted on mcgill.ca/exams. No student will be allowed to enter an in person examination later than one hour after it has started.



Note for Medicine and Health Sciences: Refer to mcgill.ca/ugme/policies-procedures/examinations.



Note for Dental Medicine and Oral Health Sciences: Refer to mcgill.ca/dentistry/academicaffairs/examschedule.

1.6.3.2 Final Examinations: Deferred Examinations

Step 1: Understanding your options and the consequences

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

- Exams during the regular period are scheduled shortly after the end of the course. Deferred exams are held much later after the end of a term, **meaning course material will not be as fresh.**
- Applying for a deferred exam does not guarantee approval. **Deferred exam requests are not automatically granted,** even with supporting documentation. Consult the "Eligibility" section for more information.
- Deferrals are meant to help students who are severely ill or dealing with unforeseeable, significant extenuating circumstances. Requests due to minor illnesses (cold), minor personal matters, or scheduling conflicts (travel plans) **will not be approved.**
- **Do not use deferral requests to manage your exam schedule** or to reduce your exam load. If you request to defer one exam due to illness, then write another exam the same day or the next, your request will likely be refused. It is your responsibility to plan how you will meet the academic requirements of your program.
- **Deferred exam requests will not be approved if you attend your exam** and partway through decide that you were not well enough to perform at full capacity.
- In cases of incidental illness (e.g., a cold, cramps, nausea, etc.) that affected your study time leading up to the exam, but where you recovered on the day of your exam, you are expected to write your exam, and a deferral **will not be granted.**
- If you have requested a deferred exam in the past, any **future requests will be reviewed more stringently,** and requests with similar reasons or circumstances as previous requests will not likely be approved.
- If you have made requests due to disability or chronic illness in the past, **it is your responsibility to take measures** to manage your condition and your course schedule to avoid relying on deferred exams in subsequent exam periods. Please refer to resources available (listed in final bullet for Step 1) and consult with your [academic advisor](#) to assist you in this process.
- **You cannot defer a deferred exam.** If you fall ill right before your deferred exam, you will not have the option to defer it again.
- **You will have to provide supporting documentation for your request if this is not your first deferral.**
- A deferred exam may have an **impact on future plans,** such as exchanges, studying abroad, internships, etc.
- **Deferring an exam merely pushes it to the future,** to a time when you may have a full course load of other exams to prepare for. You are strongly advised not to defer more than two exams in an exam period, as this could make for an unmanageable deferred exam period and workload for the following semester.
- The course with a deferred final exam will show a grade of "L" on your transcript until the deferred exam is written and graded. **Both the grade of "L" and your final grade will display on your advising/unofficial transcript.**
- McGill offers **many resources** to help you avoid having to defer, including McGill [Tutoring Services](#), McGill [Counselling Workshops](#), [faculty-specific resources](#), and other [academic resources](#). If you have a disability or a chronic illness, register with the [Office for Student Accessibility & Achievement](#) to help you manage your accommodation needs
- Your [academic advisor](#) can help point you toward valuable resources and support services, as well as outline how a deferral might affect your career and timeline.

Step 2: Find out if you are eligible for a deferred exam

The following are the eligibility requirements for a deferred exam:

- Requests are submitted according to your Faculty Guidelines (see "Submitting a request").
- You must cite a valid reason for requesting a deferred exam, even if this is your first-time request. Valid reasons are:
 - Serious medical illness;
 - Serious personal issues/circumstances;
 - Serious unforeseeable or extenuating circumstances.



Note: Travel plans are not a valid reason.

- If this is not your first deferred exam request, you must also provide supporting documentation (such as a medical note) which confirms your inability to write the exam on the original date. Documents should be submitted as soon as you submit your deferral request in *Minerva*. Incomplete requests will be cancelled, and late documents will not be accepted. See "Submitting a request" for details on accepted supporting documents and how and when to submit supporting documents.
- First-time requests: Students in eligible faculties (**listed below**) who request a **first-time** exam deferral due to illness or other serious extenuating circumstance may be granted the deferral without the need for supporting documentation (such as a medical note). Students requesting a first-time deferral are nonetheless required to have a valid reason, and all other requirements and deadlines for submitting a request for a deferred exam will apply.

Eligible faculties:

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

Ineligible faculties/schools:

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

Step 3: Submit your request

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

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

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?
Arts (including Information Studies and Social Work)	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Current Student Contact Form	OASIS at Dawson Hall
Continuing Studies	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at School of Continuing Studies or by email	Continuing Studies Front Desk (688 Sherbrooke W. , 11th floor)
Dentistry	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Associate Dean or Student Affairs within Dentistry	Student Affairs within Dentistry - or Norman Miller
Education	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Student Affairs (3700 McTavish , room 243) or by email	Student Affairs at Education (3700 McTavish , room 243)
Engineering (including Architecture and Urban Planning)	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Frank Dawson Adams building (3450 University , Room 22)	Student Affairs at Frank Dawson Adams building (3450 University , Room 22)
Graduate Studies	Consult with the Graduate department - your Graduate Program Coordinator must submit a Deferred Exam Request on your behalf	Consult with your Graduate department	Departmental Supervisor
Law	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Law Student Affairs (3644 Peel , room 433)	In person at Law Student Affairs (3644 Peel , room 433)
Management	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Management Student Affairs (1001 Sherbrooke W. , room 110)	In person at Management Student Affairs (1001 Sherbrooke W. , room 110)
Medicine and Health Sciences	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Medicine The WELL Office (3708 Peel Street)	Medicine Student Affairs (680 Sherbrooke West)
Music	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Student Affairs at Music - Elizabeth Wirth Music building (527 Sherbrooke St W. , 7th floor)	Student Affairs at Music - Elizabeth Wirth Music building (527 Sherbrooke St W. , 7th floor)
Nursing	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Student Affairs (680 Sherbrooke Ouest , 19th floor, room 1944)	Student Affairs (680 Sherbrooke Ouest , 19th floor, room 1944)
Physical and Occupational Therapy	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Student Affairs (3630 Sir William Osler)	In person at Student Affairs (3630 Sir William Osler)
Religious Studies	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Service Point or by email (BA in Religious Studies)	Religious studies (Birks Building, 3520 University)
Science (including B.A. and Sc.)	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	Current student Contact Form	SOUSA at Dawson Hall
Summer Studies - Special Students	Minerva (Student Menu>Student Records Menu>Deferred Exam Application)	In person at Service Point or by email	N/A

4. Submit supporting documents.

What do you need to provide?

Supporting documents must substantiate your claim of incapacity or inability to attend your exam(s) on the given date(s).

Medical notes must be from a health practitioner who has observed and diagnosed your condition directly and in-person (telephone or remote diagnoses are not permitted). The following is a list of registered and licensed health practitioners deemed acceptable:

- A Dental Surgeon or Dentist
- A Psychologist, Psychotherapist, or Social Worker
- A Physician, Psychiatrist, or Surgeon
- A Nurse or Nurse Practitioner
- A health professional from any of the McGill health services (ie., [Student Wellness Hub](#))

All supporting documents must be clear, complete, and include the following:

- a. Your full name, and where applicable McGill ID#
- b. Information about your health practitioner:
 - their name, address, and license #
 - their signature
 - the date you met with them
- c. Information about your circumstances:
 - a statement of capacity, indicating that you weren't/aren't able to attend your exam and why;
 - the date(s) that you were/are incapable of doing so;
 - the date on which you'll be able to resume your studies/exams.

When do you need to provide it?

Supporting documents must be sent as soon as you have submitted your [Minerva](#) request. Note that incomplete requests will be cancelled.

- Arts and Science students:
 - Submit PDF copies of your documents to Service Point by completing the Current student Contact form mcgill.ca/servicepoint/current-student-contact-form and selecting the option "Final Exams".
- Students from all other 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 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 Reading Break**.
 - Exams deferred from the **April exam period** (i.e., from the Winter term) are scheduled in the **3rd 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, register with the [Office for Student Accessibility & Achievement](#). If you are experiencing anxiety or other mental health issues, see a counsellor or therapist and talk to your faculty adviser regarding ways you can better manage your course load. McGill offers many resources to help you avoid having to defer, including McGill [Tutoring Services](#), McGill [Wellness and Life Skills Workshops](#), Counselling resources through the [Student Wellness Hub](#), and other [academic resources](#).

If your deferred exam request is refused

- The refusal could be for any number of reasons, including but not limited to:
 - You did not provide a valid reason for your request;
 - Your medical documentation was non-specific, inadequate, or missing;

- You have made previous requests for similar or the same reasons and there is no evidence that you have taken measures to address the challenges you are facing during exam periods.
- You **must write the final exam at its originally scheduled date and time**. If you do not or did not write your final exam, you will receive a grade of J, which counts as a failure in your TGPA and CGPA. If you receive a J, a supplemental exam may be an option for you if you meet the eligibility requirements. See [Supplemental Exams](#).
- If you are an Arts or Science student, you may make a written request to have the decision reviewed; there must be new information or documentation relevant to your initial request that you did not originally submit.

If you believe that your situation warrants a decision review, submit your written request no later than 5 business days after the refusal of your initial request.

- How to submit a request:
 - Write a concise (max 500 words) statement explaining why you are requesting a decision review, and what new and relevant information you are sharing to support your request.
 - Email your statement - including PDF-formatted supporting documents - to servicepoint@mcgill.ca from your McGill email account, ensuring that the subject line reads "Decision Review: Deferred Exam".
- Decisions are reviewed by a committee consisting of the following individuals: Director, Service Point; Registrar and Executive Director of Enrolment Services; and either the Associate Dean (Arts OASIS) or the Director of Advising (Science SOUSA), depending on your 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 Arts OASIS or SOUSA to talk about your options and the effects that your request may have on your studies. For more information, see mcgill.ca/students/advising.



Note for 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 mcgill.ca/importantdates, apply on Minerva, and provide medical documentation to the Student Affairs Office.



Note for the Faculty of Engineering: You should refer to [section 1.6.3.2.1: Deferred Examinations: Faculty of Engineering](#) for more information on the Faculty of Engineering policies on deferred exams.



Note for the Faculty of Law: You should refer to mcgill.ca/law-studies/courses/exams for more information on the Faculty of Law policies on deferred exams.



Note for the Schulich School of Music: A Music student who has not cleared a grade of L by mid-May is ineligible for scholarships.

1.6.3.2.1 Deferred Examinations: Faculty of Engineering

For information regarding deferred examinations in the Faculty of Engineering, please see mcgill.ca/engineering/students/undergraduate/courses-registration/exams-assessment/deferred-exams.

1.6.3.3 Final Examinations: Reassessments and Rereads

In accordance with the Charter of Students' Rights, and subject to its stated conditions, you have the right to consult any written submission for which you have received a grade. You also have the right to discuss this submission with the examiner. If you want to have a formal final examination reread, you must apply in writing:

- to your Student Affairs Office (the Associate Dean, Student Affairs, in the Faculty of Agricultural and Environmental Sciences and in the Schulich School of Music); see [section 1.11.3: Contact Information for Faculty & School Student Affairs Offices](#);

OR

- via [Service Point](#) if you are a student in the Faculty of Arts or the Faculty of Science.

You should check with that office regarding application deadlines for formal rereads.

1.6.3.3.1 Reassessments and Rereads: Faculties of Arts and Science (including B.A. & Sc.)

There are two recognized types of impartial reviews: reassessments and rereads:

- reassessment of coursework completed during the term (term papers, mid-terms, assignments, quizzes, etc.)
- reread of a final exam

In both cases, rather than recorrect the work and then grade it as they would have done themselves, reviewers assess the **appropriateness** of the original grade based, for example, on the application of the grading key to the student's work. If a grade is deemed unfair, it is changed, whether the new grade is higher or lower than the original, i.e., the reviewer's grade takes precedence over the original grade.

1.6.3.3.1 Reassessment of Coursework

These reassessments are administered and conducted solely by the units involved according to procedures specified by the units and made available to staff and students. Requests for such reassessments must be made within 10 working days after the graded material(s) has been made available for students to view. Reassessments should normally be completed within 20 working days of the request.

1.6.3.3.2 Rereads of Final Examinations

Deadlines to request final exam rereads:

- **March 31** for courses in the Fall term
- **September 30** for courses in the Winter and Summer terms

Exam reread fees apply; refer to the [Student Accounts](#) website for fee amounts and information.

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.

1.6.3.3.2 Reassessments and Rereads: Faculty of Agricultural and Environmental Sciences

Two forms of formal re-evaluation of graded work are possible: reassessments of term work (midterm exams, quizzes, assignments, etc.) and rereads of final exams.

In both cases the first step is to discuss your grades with your instructor, for explanation and possible adjustment. If a satisfactory conclusion cannot be reached, a formal re-evaluation by a qualified and impartial evaluator can be requested.

For term work, you must apply for a reassessment in writing to the chair of the department that administers the course. An email request is sufficient. If in doubt about whom to contact, ask your Academic Adviser. The request for reassessment of term work must be made within 10 working days after the graded material has been made available to you.

For formal final examinations, you must apply for a reread in writing to the Associate Dean (Student Affairs). Application for rereads must be made by March 31 for Fall term courses and by September 30 for Winter term and Summer term courses. You will be assessed a fee for formal rereads; if your examination grade increases, the fee is waived.

You should be aware that, in either case:

- grades may be raised, stay the same, or be lowered as the result of a re-evaluation;
- the final course grade will be determined using the new grade, whether it is higher or lower;
- re-evaluations in courses outside the Faculty of Agricultural and Environmental Sciences are subject to the deadlines, rules, and regulations of the relevant faculty.

1.6.3.3.3 Reassessments and Rereads: Faculty of Law

For information on the Faculty of Law's grade review regulations (rereads of failed examinations, rereads of failing assignments, and review of final evaluations) refer to: mcgill.ca/law-studies/courses.

1.6.3.3.4 Rereads: Faculty of Engineering

You can request a formal reread of a final examination once you have discussed it with your instructor. You must complete a *Reassessment of a Grade and Reread* [webform](#) and submit it to the Student Affairs Office, [Engineering Student Centre](#).

The following regulations apply:

- Grades may be either raised or lowered as the result of a reread.
- A fee for each reread will be assessed directly to your McGill account if the result remains the same or is lowered. If the grade is raised, there is no charge. Consult the Student Accounts website for the fee at mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/other.

Reread application deadlines:

- Fall courses: last working day of March
- Winter courses: last working day of July
- Summer courses: last working day of September

Non-Engineering courses: Rereads in courses not in the Faculty of Engineering are subject to the deadlines, rules, and regulations of the relevant faculty.

1.6.3.4 Supplemental Examinations

If you are in [section 1.5.1: satisfactory or probationary standing](#) and received a grade of D, F, J, or U, you may be eligible to write a supplemental exam, which will count for a large percentage of your final grade. Your initial grade will still appear on your transcript, and both will be calculated into your CGPA.

To apply for a supplemental examination for a course, you must submit a request on Minerva (mcgill.ca/minerva) by going to *Student Menu > Student Records Menu > Supplemental Exam Application*.

The following rules and conditions apply:

- You must be in Satisfactory or Probationary Standing;
- You must have received a final grade of D, F, J, or U in the course;
- A non-refundable fee for each supplemental exam application is assessed at the time of application and charged directly to your McGill account; consult the Student Accounts website for the fee at mcgill.ca/student-accounts/tuition-fees/non-tuition-charges/other;
- Only one supplemental examination is allowed in a course;
- Supplemental examinations are available for most courses given in the Faculties of Arts, Science, Education, Religious Studies, and the School of Social Work;
- Supplemental examinations are not available for courses administered by Agricultural and Environmental Sciences, Engineering, Management or Music;
- 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 add/drop 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 mcgill.ca/students/advising.

You must verify the date and time of the supplemental examination and make yourself available to write the exam. Supplemental examinations for courses taken in the *Fall term* will be written during *Reading Break* the following Winter term. Supplemental examinations for courses taken in the *Winter term* will be written in August of that year. Dates can be found at mcgill.ca/exams/dates.



Note for Continuing Studies: Availability of supplemental exams and the conditions under which you will be permitted to take them are different in each academic area.



Note for the Faculties of Arts and Science (including B.A. & Sc.): It is important that you also see a Faculty adviser in Arts OASIS or SOUSA to talk about your options and the effects that your request may have on your studies. For more information, see mcgill.ca/students/advising.



Note for the Faculty of Engineering: Supplemental examinations are available for the following courses: CHEM 110, CHEM 120, CHEM 212, CHEM 234, COMP 202, MATH 133, MATH 140, MATH 141, PHYS 131, PHYS 142, and other courses administered by the Faculty of Science as well as courses administered by the Faculty of Arts (e.g., some Complementary Studies courses from Group A *Impact of Technology on Society* and from Group B *Humanities and Social Sciences, Management Studies and Law*).

Supplemental examinations are **not** available for the following Engineering courses: CHEM 233, EPSC 221, MATH 262, MATH 263, MATH 264, MATH 271, MATH 363, and PHYS 271. These courses are offered by the Faculty of Science, but administered by the Faculty of Engineering. If you are not sure which courses offer supplemental examinations, please contact the [Engineering Student Centre](#).



Note for the Faculty of Law: Regular supplemental examinations are available to a student who has failed a course, but who is not required to withdraw from the Faculty. Regular supplemental examinations may be written in up to two courses that do not exceed a total of seven credits together, or in any one course even if it exceeds seven credits. Supplemental examinations are written at the Law Faculty in the month of August. For more information, see *Supplemental Examinations* at mcgill.ca/law-studies/courses/exams.

1.6.3.5 Additional Work: Faculty of Science (including B.A. & Sc.)

Instructors of courses that include graded, written term work may choose to provide the option of additional work to eligible students. The following conditions apply:

- if there is an option for additional work, it must be announced in the course outline at the beginning of the course;
- additional work involves revising one or more previously submitted papers or submitting new written work to replace the original work;
- you must be in Satisfactory or Probationary Standing;
- you must have received a final grade of D, J, F, or U in the course;
- the weight of the additional work will be equal to the weight given to the work that was revised or replaced when the original grade was submitted;
- the grade resulting from the revised or additional work will be recorded as a supplemental grade;
- the supplemental result will not replace the grade originally obtained, which is used in calculating the GPA; both the original grade and the supplemental grade will count in calculating the CGPA;
- in 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;
- 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 [section 1.12: Service Point](#). However, it is important that you also see a Faculty adviser in Arts OASIS or SOUSA to talk about your options and the effects that your request may have on your studies. For more information, see mcgill.ca/students/advising.

1.6.4 Examinations: External Exam Proctors

Upon request, McGill will act as proctor for paper-based and online exams from universities or professional accreditation associations and organizations. For complete information on scheduling, fees, payment and all other details please consult the [Exams website](#).

1.6.4.1 Contact Information

Email: proctor.es@mcgill.ca

Website: mcgill.ca/exams/dates/proctor

1.6.5 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 mcgill.ca/engineering/students/current-students/undergraduate/courses-registration/exams-assessment/faculty-standard-calculators.

1.6.6 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.

1.6.6.1 Laptop Examination Agreement

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

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

For more information on this agreement, see: mcgill.ca/law-studies/courses.

1.7 Internships, Exchanges, and Co-op Programs

1.7.1 Internships and Co-op Programs

Several faculties at McGill offer undergraduate students the opportunity to participate in an internship or co-op program.


- **Faculty of Agricultural and Environmental Sciences** students: Refer to [Faculty of Agricultural and Environmental Sciences > Undergraduate > Overview of Programs Offered by the Faculty of Agricultural and Environmental Sciences > section 2.5.1: Internship Opportunities](#).
- **Faculty of Arts** students: See the Arts Internships website at mcgill.ca/arts-internships.
- **Faculty of Education** students: For information on B.Ed. Field Experiences (student teaching), please refer to the [Internships & Student Affairs website](#); for information on B.Sc. Kinesiology internships, please [contact your KPE Student Advisor](#).
- **Faculty of Engineering** students: Refer to [Faculty of Engineering > Undergraduate > section 6.11: Engineering Internship Program](#). The Department of Mining and Materials Engineering also offers co-op programs in Mining Engineering and Materials Engineering.
- **Faculty of Law** students: For information on Human Rights internships, see: mcgill.ca/humanrights/clinical/internships.
- **Desautels Faculty of Management** students: Refer to [Desautels Faculty of Management > Undergraduate > BCom Degree Requirements > section 9.6.6: Course Overlap](#).
- **Faculty of Science** students: Information regarding internships for Science students can be found at mcgill.ca/science/undergraduate/internships-field/internships.

1.7.2 Exchange Programs

For information on Exchange Programs, refer to [Study Abroad & Field Studies > Undergraduate > section 12.4: Exchange Programs](#).





Note for Arts students: Further information on exchanges and studying away may be obtained from the Arts OASIS website at mcgill.ca/oasis.

 **Note for Engineering students:** For further information, contact the Faculty of Engineering Student Affairs Office in the Engineering Student Centre, and see mcgill.ca/engineering/students/undergraduate/exchanges-study-away.

 **Note for Law students:** Students should consult mcgill.ca/law-studies/bcljd-studies/exchange for the eligibility criteria.


 **Note for Management students:** See also [Desautels Faculty of Management > Undergraduate > Desautels Faculty of Management Studies > section 9.4.6: International Student Exchange Program](#).

 **Note for Science and B.A. & Sc. students:** Further information may be obtained from the SOUSA website at mcgill.ca/science/student/general/studyaway.

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

1.7.3 Field Studies

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

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

1.7.4 Mobility Award

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

1.7.5 Study Abroad Opportunities

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

1.8 Scholarships and Student Aid

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

1.8.1 Entrance Awards for McGill Students

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

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

- Entrance Scholarships are entirely merit-based; financial need is not considered.
- Value ranges from \$3,000 to \$12,000.
- There are two types: the One-Year, where eligibility is based solely on academic 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 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 mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships/application-instructions.
- The Faculties of Dentistry, Law, Medicine and Health Sciences, 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 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 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 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, you must complete at least 27 graded credits in the regular academic year unless otherwise stated by your Faculty. Courses completed under the Satisfactory/Unsatisfactory (S/U) option, and Summer courses, are not considered. Program content and number of credits may also be considered.
- 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 mcgill.ca/students/iut.
- You should review all regulations regarding in-course awards by consulting 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 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 oversees 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 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 variety of Work Study positions available, ranging from clerical work in an administrative office to research with a professor. In addition to helping you cope with your financial obligations, Work Study also provides practical work experience that may enhance future employment opportunities.

Further information is available on McGill's Work Study website at mcgill.ca/studentaid/work-study and at the Scholarships and Student Aid Office:

William & Mary Brown Student Services Building
3600 McTavish Street, Suite 3200
Montreal QC H3A 0G3
Canada

Email: work.study@mcgill.ca

Website: mcgill.ca/studentaid/work-study

1.8.3.1 Student Aid

Telephone: 514-398-6013

Email: student.aid@mcgill.ca

Website: mcgill.ca/studentaid

1.8.3.2 Scholarships

Telephone: 514-398-6013

Email: scholarships@mcgill.ca

Website: mcgill.ca/studentaid/scholarships-aid

1.9 Graduation

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

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

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 mcgill.ca/students/advising/advisordirectory.

Once your record has been approved for graduation, your unofficial and official transcripts will indicate the notation “Degree Granted” after approval by the University Senate.

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

For more information on applying to graduate, refer to the [Apply to Graduate](#)

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 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, and you can also access it through your faculty's graduate pages.



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

- You must successfully complete a minimum of 21 McGill credits (excluding prerequisites and corequisites) in order to obtain a McGill undergraduate certificate. For specific information refer to your department section of this publication.
- Students completing a second undergraduate certificate at McGill must successfully complete a minimum of 21 McGill credits (excluding prerequisites and corequisites) to obtain their certificate. You should check with your adviser for any conditions applicable to the McGill credits required toward your certificate.

1.9.1 Apply to Graduate

Most undergraduate students and non-thesis graduate students (master's, certificates, diplomas) must use [Minerva](#) to apply to graduate (go to [Student Records > Apply for Graduation for Your Primary Curriculum](#)). It is your responsibility to inform McGill of your intention to graduate. You need a minimum residency requirement of 60 credits at McGill to qualify for a McGill undergraduate degree. For more information, see [section 1.9: Graduation](#). The minimum CGPA required to graduate is 2.00, and you must be in Satisfactory Standing.

The Application for Graduation is available on Minerva when you register for your final year (e.g., U3 or U4), except if you are in the Faculty of Medicine and Health Sciences or Faculty of Dental Medicine and Oral Health Sciences, where you are automatically flagged for graduation in your final year. For more information on how to apply on Minerva, go to mcgill.ca/graduation/applying.

Once you apply to graduate, you are authorizing the University to:

1. include your name and image in the McGill Convocation programs, web streamed convocation broadcast, and other convocation-related communications
2. to have your ID, name, degree and ceremony provided to the Academic Regalia provider for the purposes of Convocation preparation
3. to have your ID, name, email, degree and ceremony provided to the Convocation Photographer for the purposes of Convocation preparation
4. to have your name, email, degree and confirmation of graduation sent to your professional order, if you are in a professional program (e.g. Engineering OIQ, Nursing OIIQ), for licensing or accreditation purposes

If you want to opt out of your information being sent to any of the above (1, 2, 3 or 4), you must complete an [Opposition Form](#) by March 15 for Spring convocation, and September 15 for Fall convocation.

1.9.1.1 Deadlines

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

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



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



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



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



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

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 in early January for Fall term graduation, in early April for Winter term graduation and in early September for Summer term graduation.

If you meet all requirements for graduation, your graduation record will indicate **Faculty Approved** on the Graduation Approval Query, and your transcript on Minerva will display the **Degree Granted** notation after the approval of degrees by University Senate and according to this schedule:

- Late February, for **Fall term** graduation (Courses completed by the end of December, Convocation in Spring)
- Late May, for **Winter term** graduation (Courses completed by the end of April, Convocation in Spring)
- Late October, for **Summer term** graduation (Courses completed by the end of August, Convocation in Fall)

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



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

1.9.3 Graduation Honours

The following sections describe honours that may be conferred at graduation.

1.9.3.1 Dean's Honour List

If you are graduating with an undergraduate degree, you may be awarded the designation Dean's Honour List under the following conditions:

1. you have completed a minimum of 60 McGill credits toward your degree; and
2. you are in the top 10% of your faculty's graduating class; this calculation is based on the CGPA.



Note for transfer students: This designation may be withdrawn if your CGPA at another university or in another faculty at McGill is not comparable to the CGPA earned in your graduating faculty.

1.9.3.2 Distinction

If you are graduating with an undergraduate degree, you may be awarded the designation Distinction under the following conditions:

1. you have completed a minimum of 60 McGill credits toward your degree; and
2. you are in the top 25%, but below the top 10%, of your faculty's graduating class; this calculation is based on the CGPA.



Note for transfer students: This designation may be withdrawn if your CGPA at another university or in another faculty at McGill is not comparable to the CGPA earned in your graduating faculty.



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



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

1.9.3.3 Faculty of Science Dean's Multidisciplinary Undergraduate Research List

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

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

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

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

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

Application

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

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

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

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

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

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

Replacing a lost diploma

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

Requesting a diploma following your Convocation ceremony

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

Modifying the name on your diploma

If you have had a name change after graduation, and need to obtain a replacement diploma with your new name, you must first follow the steps to [request a name change](#) by completing and signing a [Personal Data Change Form](#) and submitting the [requisite supporting documentation](#). Once you have received confirmation that the name on your McGill record has been updated, you can then submit a request for a replacement diploma via [Service Point Checkout](#), provide the requested personal and program details, upload a government-issued photo ID and pay the replacement fee.

1.9.4.2 Submitting your request

There are two ways to submit a request:

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



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

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



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

1.9.5 Aegrotat Standing and Degree at McGill University

In rare cases where a student, based on serious medical or similar evidence, is unable to complete their program requirements within a reasonable time, or at all, they may be awarded their degree with Aegrotat Standing.

At McGill, this designation may be considered if a student has completed 75% or more of their degree program requirements and based on a serious medical situation or other extenuating circumstance is unable to complete their program requirements. If approved, this could result 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 Satisfactory Standing who have been unable to complete their degree due to special circumstances toward the end of their program. Information on this degree designation is only included in the convocation program, and not on the transcript.

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

1.10 Admission to Professional and Graduate Studies

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

1.10.1 Language Requirements for Professions

Quebec law requires that candidates seeking admission to provincially recognized professional corporations* must be able to communicate verbally and in writing in French. To demonstrate a working knowledge of French, the professional corporation requires one of the following:

- Evidence that you have completed three years of full-time instruction in a French post-primary school
- A certificate that shows you completed your secondary education in Quebec in 1986 or later
- Successful completion of a written examination set by Quebec's *Office québécois de la langue française* (OQLF). See below for more information.

If you are a registered student and are within two years of graduating with a degree that will give you access to a professional corporation, you can write the OQLF examination. You should contact Enrolment Services for an application form. Examinations take place every three months and may be attempted an unlimited number of times. Priority is given to students closest to graduation.

More information may be obtained from the *Office québécois de la langue française*, 125 Sherbrooke Street West, Montreal, Quebec, H2X 1X4. Telephone: 514-873-6565. Website: www.oqlf.gouv.qc.ca.

If you need to acquire a functional level of proficiency in French, you can take courses from either the French Language Centre (Faculty of Arts mcgill.ca/flc) or the School of Continuing Studies, 688 Sherbrooke Street West, telephone: 514-398-6200 (mcgill.ca/continuingstudies/area-of-study/languages).

If you are already strong in French and want to maintain or improve your proficiency, you may consider taking courses in the Department of French Language and Literature, Faculty of Arts or the School of Continuing Studies.



Note: You cannot apply non-credit language courses, and certain credit language courses, completed at the School of Continuing Studies to program/degree requirements. Consult your faculty for clarification.

* McGill degrees and diplomas currently give access to corporations regulating the activities of the following professional groups:

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 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](#).

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](#).

1.11.1 Your Academic Career at McGill

1.11.1.1 University-Wide Regulations

This publication contains the regulations about your undergraduate academic career at McGill. It includes regulations concerning when to register, when to add, drop, or withdraw from courses, the consequences of missing deadlines, how grading appears on your transcript, and other important information.

1.11.1.2 Faculty-Specific Regulations

McGill has 11 faculties, and every student belongs to one of them. When you are admitted to McGill, your offer letter indicates the faculty, degree, and program to which you have been accepted, and the number of credits you need to complete for your degree.

You should consult the appropriate faculty section in this publication for information pertinent to your degree and program, and for faculty-specific regulations.

1.11.1.3 Your Academic Program

You are registered in a **degree**, but for many degrees there are associated programs (a major, minor, major concentration, etc.). For some degrees, such as Bachelor of Engineering, you will typically follow one program (such as Computer Engineering). For others, such as Bachelor of Arts, you will typically follow more than one program (such as a major concentration in English, with a minor concentration in History).

A typical undergraduate degree at McGill is 120–140 credits (four years of full-time study).

- Quebec CEGEP students typically receive 30 credits of Advanced Standing, so they will usually only have a further 90–110 credits (three years of full-time study) to complete. This varies by faculty, so consult your faculty section. In your first year, you will be placed in **UI** (undergraduate year 1).
- Most other students typically have 120–140 credits to complete. This varies by faculty, so consult your faculty section. In your first year, you will be placed in **U0** (undergraduate year 0), which is often referred to in this publication and elsewhere as your **freshman** year.
- Many students at McGill come with other forms of Advanced Standing (International Baccalaureate, French Baccalaureate, advanced placement exams, or students admitted from other universities as transfer students). If this is your case, you will receive information during the admissions process.



Note: Students given Advanced Standing who nevertheless wish to complete 120 McGill credits may be allowed to do so; for full details, see [section 1.5.6.1: Advanced Standing Transfer Credits](#).

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 variations; for more information, see [section 1.5.2: Credit System](#).
- For information about **required**, **complementary**, and **elective courses**, see [section 1.3.2.3: Course Terminology](#) and [section 1.3.2.5: Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#).
- Some departments or programs may provide you with a **recommended list** of courses (or streams), so that you know the typical term-by-term course pattern. There may also be a program guide or handbook available; you can ask your departmental or program adviser about this.

For more assistance in understanding program requirements, and for a list of advisers on both Downtown and Macdonald campuses, see [section 1.11: Undergraduate Advising](#).

1.11.1.5 Advising and the University Mission

The Mission Statement of the University expresses the commitment to offer students the *best education available*. An essential component of this is the advising process. Academic advising takes place in many ways and locations at McGill, so it is important that you learn about the different [section 1.11.2: Types of Advising and Advisers](#) and how they can help you reach your goals. You should also consult the advising information provided on your Faculty's website ([section 1.11.3: Contact Information for Faculty & School Student Affairs Offices](#)) and on the [Academic Advising website](#).

1.11.1.6 The Role of Student Advising

Your active participation in the advising process is essential for accessing the full range of academic opportunities during your studies. You must be proactive in seeking meetings with various academic advisers, professors, and related administrative units to ensure that you receive the advice you need to formulate a personal plan of study and to meet your academic goals. While advisers are there to provide you with guidance, you are ultimately responsible for meeting your degree or diploma requirements. It is your responsibility to learn the rules and regulations of the University, your faculty, and your program. With your collaboration, your academic advisers can assist you throughout your undergraduate studies.

1.11.2 Types of Advising and Advisers

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

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

Faculty advisers:

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

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

Departmental academic advisers:

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

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

Professors/lecturers:

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

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

1.11.2.1 Related Resources

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

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

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

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

Career Planning Service (CaPS) (Brown Student Services Building; mcgill.ca/caps) provides career education, guidance, and individual advising to help you in your search for permanent, part-time, or summer jobs and internships.

Service Point (3415 McTavish Street, Montreal QC H3A 0C8; 514-398-7878; mcgill.ca/servicepoint) is the student-facing customer-service arm of Enrolment Services, which provides administrative services and assistance related to official documents, student records, tuition and fees, and student exchanges.

On the Macdonald campus, information is provided by the Student Affairs Office, Laird Hall, Room 106; mcgill.ca/macdonald.



Note for Medicine: The Faculty of Medicine and Health Sciences' **WELL Office** also provides services to M.D.,C.M. students, including career planning advising offered by the Faculty's [Undergraduate Career Planning Office](#).

1.11.3 Contact Information for Faculty & School Student Affairs Offices

The following contact information is for faculty-level student affairs offices. For student affairs/advising information for a specific department within a faculty, please refer to mcgill.ca/faculties.

Faculty of Agricultural and Environmental Sciences, incl. School of Human Nutrition

Telephone: 514-398-7925
 Email: studentinfo.macdonald@mcgill.ca
 Website: mcgill.ca/macdonald/studentinfo/advising

Faculty of Arts, incl. Schools of Information Studies, Public Policy, Religious Studies, and Social Work

Office of Advising and Student Information Services (OASIS)
 In person: Dawson Hall, Room 110 (Monday–Friday, 10:00 a.m.–4:00 p.m.)
 Telephone: 514-398-1029 (Monday–Friday, 10:00 a.m.–4:00 p.m.)
 Email: adviser.arts@mcgill.ca
 Website and live chat: mcgill.ca/oasis

Students in U1 or above should also see the contact information for departmental academic advisers at mcgill.ca/oasis/advising/departmental-advising-information.

Faculty of Dental Medicine and Oral Health Sciences

2001 McGill College Avenue
 Telephone: 514-398-7203
 Email: undergrad.dentistry@mcgill.ca
 Website: 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

Faculty of Education

Website: mcgill.ca/isa

Faculty of Engineering, incl. Schools of Architecture and Urban Planning

McGill Engineering Student Centre (Student Affairs Office, Career Centre, and Peer Tutoring Service):

Telephone: 514-398-7257

Email: advisor.engineering@mcgill.ca

Website: mcgill.ca/engineering



Note: You are required to meet with an academic adviser before the start of classes. If you are admitted to Year 0 and you are seeking transfer credits, you are initially advised by the Student Affairs Office, Engineering Student Centre, followed by advising in your department. If you are admitted to Year 0 and you are not seeking transfer credits, or if you are admitted to Year 1, you should contact the department/school directly.

Bieler School of Environment

Telephone: 514-398-4306

Email: kathryn.roulet@mcgill.ca

Website: mcgill.ca/environment/contact

Faculty of Law

Telephone: 514-398-6608

Email: sao.law@mcgill.ca

Website: mcgill.ca/law-studies/law-student-affairs-office

Desautels Faculty of Management

Telephone: 514-398-4068

Email: bcom.mgmt@mcgill.ca

Website: mcgill.ca/desautels/programs/bcom

Faculty of Medicine and Health Sciences

For academic inquiries:

Telephone: 514-398-5557

Email: undergrad.med@mcgill.ca

Website: mcgill.ca/ugme/contact-us

For personal inquiries:

The WELL Office

Telephone: 514-398-5836

Email: thewelloffice@mcgill.ca

Website: 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 or student-affairs-officer.nursing@mcgill.ca

Website: mcgill.ca/nursing/students

School of Physical & Occupational Therapy

Telephone: 514-398-4500
 Email: undergrad.spot@mcgill.ca
 Website: mcgill.ca/spot/about/contact-us

Schulich School of Music

Telephone: 514-398-4541
 Email: studentaffairs.music@mcgill.ca
 Website: mcgill.ca/music/student-resources/undergraduates

Faculty of Science, incl. School of Computer Science

Science Office for Undergraduate Student Advising (SOUSA)
 Telephone: 514-398-5442
 Email: newstudentadvising.science@mcgill.ca for newly admitted students only
 Email: advisor.science@mcgill.ca
 Website: mcgill.ca/science/undergraduate

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

1.11.4 Contact Information for Departments, Schools, and Programs

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

1.11.5 Prospective Students

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

1.11.5.1 Student-for-a-Day Program

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

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

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

1.12 Service Point

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

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

- certified or translated copies of diplomas
- degree verification
- help with admissions
- help with Minerva
- international health insurance cards and exemptions
- McGill ID cards
- official transcript pick-up
- replacement diplomas

- student exchanges/study abroad
- submitting 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 mcgill.ca/students.

For more information about Service Point, see 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 mcgill.ca/servicepoint
Email: please refer to mcgill.ca/servicepoint/contact-us

1.13 Student Services

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

1.13.1 Office of the Executive Director, Services for Students

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

For information, contact:

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

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

1.13.2 Support for Students: Office of the Dean of Students

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

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

For information, contact (Dean/Associate Dean):

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

1.13.3 Student Services – Downtown Campus

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

Brown Student Services Building, Suite 4100

3600 McTavish Street
 Montreal QC H3A 0G3
 Email: student.services@mcgill.ca
 General Information: 514-398-8238
 Website: mcgill.ca/student-services

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 Student Accessibility & Achievement](#)
- [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 Services](#)

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.

Brown Student Services Building
 3600 McTavish Street, Suite 4100
 Telephone: 514-398-6913
 Email: cle@mcgill.ca
 Website: mcgill.ca/cle

First-year students:

Email: firstyear@mcgill.ca
 Website: 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
 Service also available at Macdonald Campus, in Centennial Centre, Room 124. Please mention campus location when booking your appointment.
 Telephone: 514-398-3304
 Email: careers.caps@mcgill.ca
 Website: mcgill.ca/caps
 myFuture: 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
 Website: 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

Service also available at Macdonald Campus, in Centennial Centre, Room 124. Please mention campus location when booking your appointment.

Telephone: 514-398-4349

Email: international.students@mcgill.ca

International Health Insurance Email: international.health@mcgill.ca

Website: 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.

3610 McTavish Street, 3rd floor, Room 36-2

Telephone: 514-398-4104

Email: morsl@mcgill.ca

Website: mcgill.ca/morsl

1.13.3.6 Office for Sexual Violence Response, Support, and Education

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

550 Sherbrooke W., Suite 585 (West Tower)

Telephone: 514-398-3786; 514-398-4486

Email: svoffice@mcgill.ca

Website: mcgill.ca/osvrse

1.13.3.7 Office for Student Accessibility & Achievement

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

Main Office - Downtown

1010 Sherbrooke St. W., Suite 410

Service also available at Macdonald Campus, in Centennial Centre, Room 124. Please mention campus location when booking your appointment.

Telephone: 514-398-6009

Email: disabilities.students@mcgill.ca

Exam Centre

Redpath Library Building, 3459 McTavish St., Suite RS-56

Telephone: 514-398-2480

Email: exams.osd@mcgill.ca

Website: mcgill.ca/osd

Macdonald Campus

Centennial Centre, Room 124

Telephone: 514-398-7992

Website: mcgill.ca/osd

1.13.3.8 Office of Sustainability

Supports McGill's goal to become an institutional model of sustainability for society. Whether you have a project in mind, or just a lot of questions, there are many ways for you to get involved with sustainability at McGill.

Sherbrooke 1010 Building, Suite 1200

Telephone: 514-398-2268

Email: sustainability@mcgill.ca

Website: mcgill.ca/sustainability

1.13.3.9 Scholarships and Student Aid Office

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

Brown Student Services Building, East Wing, Suite 3200

Service also available at Macdonald Campus, in Centennial Centre, Room 124. Please mention campus location when booking your appointment.

Telephone: 514-398-6013

Student Aid email: student.aid@mcgill.ca

Scholarships email: scholarships@mcgill.ca

Website: mcgill.ca/studentaid

1.13.3.10 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), sexologists, and lab technicians, as well as information, support, and programming through the Healthy Living Annex.

Downtown Campus

Brown Student Services Building, 3rd floor

Service also available at Macdonald Campus, in Centennial Centre, Room 124. Please mention campus location when booking your appointment.

Telephone: 514-398-6017

Email: hub.clinic@mcgill.ca

Website: mcgill.ca/wellness-hub

Macdonald Campus

Centennial Centre, Room 124

Telephone: 514-398-7992

Website: mcgill.ca/macdonald-studentservices/health-wellness

1.13.3.11 Tutorial Services

Sponsors an extensive peer matching tutoring program for students.

1010 Sherbrooke Street W., Suite 410

Telephone: 514-398-2505

Email: tutoring.service@mcgill.ca

Website: 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. A complete list of Student Services can be found at mcgill.ca/studentservices/services. All **Student Services** at Macdonald Campus are located in the Centennial Centre, unless otherwise noted:

Centennial Centre, Room 124

21,111 Lakeshore Road

Sainte-Anne-de-Bellevue QC H9X 3V9

Telephone: 514-398-7992

Email: stuserv.macdonald@mcgill.ca

Website: mcgill.ca/macdonald-studentservices

A list of services available is given below. For detailed information, please visit [our website](#) and the main [Student Services website](#).

- [section 1.13.4.1: Career Planning Service \(CaPS\)](#)
- [section 1.13.4.2: International Student Services \(ISS\)](#)
- [section 1.13.4.3: Office for Student Accessibility & Achievement](#)
- [section 1.13.4.4: Student Wellness Hub](#)
- [section 1.13.4.5: Scholarships and Student Aid](#)
- [section 1.13.4.6: Other Services](#)

1.13.4.1 Career Planning Service (CaPS)

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

Telephone: 514-398-3304

Email: careers.caps@mcgill.ca
Website: mcgill.ca/caps
myFuture: caps.myfuture.mcgill.ca

1.13.4.2 International Student Services (ISS)

Offers support to international students; orientation and transition programs, and immigration and health insurance information. Appointments can be arranged with an Immigration Advisor at Macdonald Campus.

Telephone: 514-398-4349
Website: mcgill.ca/internationalstudents

1.13.4.3 Office for Student Accessibility & Achievement

The Office for Student Accessibility & Achievement provides learning assessment, support services, and reasonable accommodations to undergraduate, graduate, and postdoctoral students with documented disabilities, mental health issues, chronic illnesses, or other impairments, whether they be temporary, permanent, or episodic.

Appointments can be arranged with an Access Services Advisor at Macdonald Campus.

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

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

1.13.4.4 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, local wellness advisors, dietitians, psychiatrists (by referral only), sexologists, and lab technicians, as well as information, support, and programming through the Healthy Living Annex.

Macdonald Campus Clinic
Centennial Centre, room 124
Telephone: 514-398-6017
Website: mcgill.ca/wellness-hub

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

1.13.4.5 Scholarships and Student Aid

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

Telephone: 514-398-6013
Website: mcgill.ca/studentaid

1.13.4.6 Other Services

The following resources available to students are external to the Student Services office.

Office of Sustainability

McGill's Office of Sustainability, located in the Downtown campus, sends representatives to Macdonald campus every month to support McGill's goal to become an institutional model of sustainability for society. Whether you have a project in mind, or just a lot of questions, there are many ways for you to get involved with sustainability at McGill.

Telephone: 514-398-2268

Email: sustainability@mcgill.ca

Website: mcgill.ca/sustainability

1.13.5 Ombudsperson for Students

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

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

Email: ombudsperson@mcgill.ca

Website: mcgill.ca/ombudsperson

1.13.6 Extra-Curricular and Co-Curricular Activities

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

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

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

1.13.6.1 University Centre, Thomson House, and Centennial Centre

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

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



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

1.13.7 Bookstore

1.13.7.1 Downtown Campus

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

Main Store:

680 Sherbrooke Street West

Website: lejames.ca

1.13.7.2 Macdonald Campus

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

Mac Campus Bookstore

Macdonald Campus Centennial Centre
21111 Lakeshore Road, Sainte-Anne-de-Bellevue
Website: lejames.ca

1.13.7.3 Institutional Sales Department

The Institutional Sales Department (formerly the McGill Computer Store; MCS) is dedicated to the support and success of the McGill community. We are committed to the mission of Ancillary Services to provide efficient and quality assistance to McGill staff and departments, as well as the affiliated teaching hospitals of the MUHC.

Contact the Sales Team at is.bookstore@mcgill.ca with your enquiry or list of products.

Institutional Sales

Website: lejames.ca/institutional

1.13.8 Day Care

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

The Centre is located at:

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

A Campus Day Care Centre, located adjacent to the 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

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 physical environment as our cornerstone
- Making environmentally and economically sustainable choices
- Being responsive to student needs and supporting student initiatives
- Maintaining open lines of communication and collaborative decision-making
- Working together to provide a comfortable, clean, and secure environment
- Keeping current with developing technology, practices, and professional development
- Maintaining integrity and accountability
- Thinking critically about what we do and having the courage to change
- Honouring our rich history and strong residence tradition

1.14.1 University Residences – Downtown

McGill Residences house approximately 3,000 undergraduate students in dormitories, apartments, and shared-facilities houses. McGill's dormitories are primarily for first-year students and feature full meal service. McGill's apartment-style residences and shared-facilities houses are mainly for first-year students who desire a more independent residence experience.

Trained upper-year student leaders (Floor Fellows) live in the McGill Residences, providing support, and trained professional, including some live-in staff (Residence Life Managers) provide 24-hour oversight of the residences. An elected Residence Council serves as the voice of students.

All McGill Residences are connected to the McGill Wireless Network.

McGill Student Housing and Dining Service Centre
3473 University Street
Montreal QC H3A 2A8
Phone: 514-398-6368
Email: housing.residences@mcgill.ca or *Talk2Us*
Website: mcgill.ca/shhs

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 have compulsory meal plans and access to multiple cafeterias.

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

No matter the hall, residents are responsible for the cleanliness of their rooms. Common bathrooms and showers are located on each floor of the traditional-style residences. Hotel-style residences feature a private *en suite* bathroom in each room. Each hall has laundry rooms, including card-operated washers and dryers, and ironing facilities. All halls have a TV and recreation room. Storage for items such as suitcases, ski equipment, etc. are present in each building.

1.14.1.2 Apartment-style Residences

- **Solin Hall** is a modern, award-winning apartment-style residence that has two-, three-, and four-bedroom apartments. Located four Metro stops west of the main campus, Solin features large common areas (TV and game rooms) as well as a computer lab, and houses mostly first-year students. Each apartment has a living room, dining room, kitchen, and bathroom(s), with appliances and basic furniture such as tables, chairs, sofas, lamps, and drapes. Bedrooms have a bed, desk, chair, and dresser. All apartments and public-area floors are carpeted. Shopping areas are within short walking distance. Limited indoor parking is available.
- The **Greenbriar Apartments** residence is located one block from the campus. It houses both upper-year undergraduate and graduate students in self-contained studio and double-occupancy, one-bedroom apartments. Apartment kitchens have a stove, fridge, and sink, and bedrooms have a bed, desk, table, chairs, dresser, and blinds.
- Similar to Greenbriar, **Hutchison Apartments** are also available for upper-year undergraduate and graduate students. Located on Hutchison Street, the building is a short walk from campus and offers studios and one-bedroom single occupancy units.

Although these residences do not require full meal plans, residents may purchase one from Food and Dining Services for use at the residence cafeterias or elsewhere on campus. For more information, see mcgill.ca/foodservices/mealplans.

1.14.1.3 Shared-facilities Houses

McGill Residences maintains a number of beautifully renovated older buildings, each housing between 15 and 30 first-year students. These shared-facilities houses are located a few blocks from the campus and have both single- and double-occupancy bedrooms with large shared kitchens, bathrooms, and common areas. Each bedroom has a desk, chair, bed (some are loft beds), dresser, closet, and blinds. Common areas are also fully furnished.

Although these residences do not require meal plans, residents are free to purchase one from Food and Dining Services for use at the residence cafeterias or elsewhere on campus. For more information, see mcgill.ca/foodservices/mealplans.

1.14.1.4 Residence Fees

The full list of housing options and prices is available on the Student Housing website at mcgill.ca/students/housing/fees-applying.

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 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-Bellevue QC H9X 3V9
 Telephone: 514-398-7716
 Email: residences.macdonald@mcgill.ca
 Website: mcgill.ca/students/housing/residence-options/macdonald

Residence life is an integral part of Macdonald Campus activities.

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

1.14.2.1 Residence Fees – Macdonald Campus

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

At time of publishing, all fees for the new academic year were not available. Prices for the previous year are displayed below for your guidance, however, we recommend consulting the fee sheet will be available on the Macdonald residence website at <http://www.mcgill.ca/students/housing/fees-applying/mac-fees/mcgill.ca/students/housing/fees-applying/mac-fees> for the most up to date pricing.

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

1.14.2.1.1 Laird Hall

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

Laird Hall	Rent will be charged in 8 equal monthly installments of:	oneCard Fees	Activity Fees	Annual Fees (2021-2022 amounts)
Single Room	\$557	\$150	\$30	\$4,636

Laird Hall				
	Rent will be charged in 8 equal monthly installments of:	oneCard Fees	Activity Fees	Annual Fees (2021-2022 amounts)
Double Room	\$507	\$150	\$30	\$4,236
Renovated Single Room	\$580	\$150	\$30	\$4,820
Renovated Double Room	\$528	\$150	\$30	\$4,332
Single with Bathroom	\$590	\$150	\$30	\$4,900
Double with Bathroom	\$539	\$150	\$30	\$4,492
Graduate Room	\$590	\$150	\$30	\$4,900

1.14.2.1.2 EcoResidence

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

EcoResidence				
	Rent will be charged in equal monthly installments of:	oneCard Fees	Activity Fees	Annual Fees (2021-2022 amounts)
Duplex 20 units (40 beds) Single Room - 12 month	\$591	\$150	\$30	\$7,272
Duplex 20 units (40 beds) Single Room - 8 month	\$625	\$150	\$30	\$5,180
Sixplex 10 units (60 beds) Single Room - 8 month	\$608	\$150	\$30	\$5,044

1.14.2.2 Residence Occupancy – Macdonald Campus

The residence fees cover the period from **August 22, 2022 to April 30, 2023**. You must vacate your room at the end of the lease term. Only under exceptional circumstances will you be granted permission to arrive prior to the beginning date of the lease or remain in residence during the summer months. In these cases, you must apply to the [Campus Housing Office](#); an additional fee will be charged if permission is granted.

You can request permission to extend your stay in residence (at the normal weekly charge) if you are taking extended courses after the regular session, employed on campus, or registered for summer courses.

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

1.14.2.3 Facilities for Non-Resident Students – Macdonald Campus

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



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

1.14.2.4 Student Parking – Macdonald Campus

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

Daily passes for students are \$8 and can be purchased at the Upper Gravel Lot and the Horticulture parking lot. Half-day passes are \$4 and can only be purchased at the meter (exact change is required). All students obtaining a daily pass must park in the Horticulture lot, east of the Highway 20 overpass. If you are not sure of the location, you can pick up a map from the Campus Security office in Laird Hall. For more information, see mcgill.ca/transport/parking/mac.

1.15 Athletics & Recreation

1.15.1 Downtown Campus Athletics & Recreation

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

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

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

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

1.15.2 Macdonald Campus Athletics & Recreation

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

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

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

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

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

1.16 Information Technology (IT) Services

- [section 1.16.1: IT Support](#)
- [section 1.16.2: Communication and Collaboration](#)
- [section 1.16.3: Online Course Materials and Lecture Recordings](#)
- [section 1.16.4: Minerva](#)
- [section 1.16.5: Secure Your Journey](#)

McGill University students, faculty, staff, and other members of the McGill community benefit from a variety of Information Technology resources. Please visit [IT Services > Resources for >](#) for details.

1.16.1 IT Support

McGill's IT Support site at mcgill.ca/itsupport is your one-stop shop for information and support on using IT services including email, Microsoft 365 tools, Wi-Fi, VPN, and more. Search the IT Knowledge Base for instructional articles, report issues, make requests for services, text with support agents, view announcements and system status, and follow up on your support tickets all from one convenient location.

1.16.2 Communication and Collaboration

McGill offers communication and collaboration tools that work together to support and enhance your educational experience.

Email

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

MS Teams

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

OneDrive

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

Microsoft Office and 365 apps

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

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



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

1.16.3 Online Course Materials and Lecture Recordings

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

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

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

1.16.4 Minerva

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

- Apply to McGill and view your application status
- View class schedules, including course descriptions and spaces available in course sections
- Register and make course changes
- Change your major or minor program (not all faculties)
- View your unofficial transcript and degree evaluation reports
- View your McGill Username, used to access computers on campus, WiFi, Email, Office 365, campus printing, and more
- View your Permanent Code, citizenship, and Quebec residency status and fee information

- Update personal information such as address, telephone number, and emergency contacts
- Update your preferred first name
- Submit an online course evaluation
- Submit an application to participate in an exchange program (not all faculties)
- Apply to graduate
- View graduation status and convocation details
- Order official transcripts
- Retrieve tax receipts
- Official documentation to order a reduced-fare STM Opus card

For information on accessing Minerva, visit mcgill.ca/itsupport/minerva-students.

1.16.5 Secure Your Journey

McGill IT Services wants to ensure students have a safe and secure journey from the moment you apply to the university to graduation, and beyond. Our new Secure Your Journey website contains tips on:

- Starting your McGill journey safely with strong passwords and 2-factor authentication (2FA);
- Learning securely;
- Staying vigilant against cyber threats such as phishing.

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

1.17 Resources for Study and Research

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

1.17.1 Libraries

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

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

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

Most libraries are open up to 90 hours per week, and several branch libraries extend *opening hours* during exam periods. The Library offers a variety of comfortable and attractive 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 Readings Service* allows you to access digital items on course reading lists in the Library's catalogue and in *myCourses*. 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



Note: This information remains accurate until the end of the Winter 2022 term. In May 2022, the McGill Writing Centre will transfer to the Faculty of Arts. All course codes will be revised and will begin with WCOM. For the most up-to-date information, please visit mcgill.ca/mwc.

The McGill Writing Centre (MWC) offers credit courses in academic, creative and professional 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: mcgill.ca/mwc.

Undergraduate Courses:

Course Number	Course Title	Credits	Notes
CEAP 150	Critical Analysis and Composition	3	Instructor permission required
CEAP 250	Research Essay and Rhetoric	3	
CESL 299	ESL: Academic English Seminar	3	
CESL 300	ESL: Academic English 2	3	Placement test required (see mcgill.ca/mwc for details)
CESL 400	ESL: Essay & Critical Thinking	3	Placement test required (see mcgill.ca/mwc for details)
CESL 500	ESL: Research Essay and Rhetoric	3	Placement test required (see mcgill.ca/mwc for details)
CCOM 200	Introduction to Creative Writing	3	
CCOM 206	Communication in Engineering	3	Restricted to and required for students pursuing a B.Sc. in Engineering
CCOM 301	Selected Communication Topic 1	3	
CCOM 302	Selected Communication Topic 2	3	
CCOM 314	Communicating Science	3	
CCOM 315	Writing the Internet	3	
CCOM 414	Advanced Communicating Science	3	



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

Graduate Courses:

Course Number	Course Title	Credits
CEAP 642	Cornerstones of Academic Writing	1
CEAP 652	Fundamentals of Academic Presentations	1
CEAP 661	Literature Review 1: Summary and Critique	1
CEAP 665	Literature Review 2: Establishing Scholarly Niches	1
CEAP 671	Selected Topics in Communication 1	1
CEAP 672	Selected Topics in Communication 2	1
CEAP 676	Thesis Writing Lab	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
CCOM 614	Communicating Science to the Public	1
CCOM 615	Communicating Science to the Digital Public	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.

Courses in Professional Writing (CE Units):

Course Number	Course Title	Notes
YCCM 208	Professional Writing in Business	
YCCM 600	Scientific Writing and Publishing: Graduate ESL	Online

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: mcgill.ca/mwc
General Inquiries: mwc@mcgill.ca

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

Dr. Zachary Abram
Email: zachary.abram@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-7109

Inquiries concerning CESL 300, CESL 400, CESL 500, CESL 641, and YCCM 600 should be directed to:

Dr. Mehdi Babaei
Email: mehdi.babaei@mcgill.ca
McLennan-Redpath Library
Main Floor, Room #02
Telephone: 514-398-7109

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

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

Inquiries concerning CCOM 200 should be directed to:

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

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

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

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

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

Administrative inquiries should be directed to:

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

1.17.3 University Archives

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

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

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

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

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

1.17.4 Redpath Museum

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

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

859 Sherbrooke Street West
 Telephone: 514-398-4086
 Email: redpath.museum@mcgill.ca
 Website: mcgill.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 Photographic Archives, which contain over 1,300,000 historical photographs and offers a unique pictorial record of Canada from pre-Confederation to the present. The McCord also houses paintings by renowned artists such as Louis Dulongpré, James Duncan, Cornelius Krieghoff, and Robert Harris. The Museum's Textual Archives include some 262 linear metres of documents relating to Canadian history. Finally, the McCord's [website](#) features award-winning virtual exhibitions, innovative learning resources, and a vast, searchable database of information on the Museum's collections.

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

Researchers are welcome by appointment.

690 Sherbrooke Street West

Telephone: 514-398-7100
 Email: info@mccord.mcgill.ca
 Website: musee-mccord.qc.ca

1.17.6 Lyman Entomological Museum and Research Laboratory

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

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

1.17.7 Other Historical Collections

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

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

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

1.18 The University

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

1.18.1 History

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

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

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

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

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

The University now comprises 10 Faculties and 17 Schools. At present over 40,000 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

1.18.2.1 Incorporated College

Royal Victoria College

3425 University Street, Montreal QC H3A 2A8

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

1.18.2.2 Affiliated Theological Colleges

Montreal Diocesan Theological College

3473 University Street, Montreal QC H3A 2A8

Principal: Rev. Dr. Jesse Zink; B.A.(Acad.), M.A.(Chic.), M.Div.(Yale), Ph.D.(Camb.)

Presbyterian College of Montreal

3495 University Street, Montreal QC H3A 2A8

Principal: Rev. Dr. Roland de Vries; B.A.(Guelph), M.Div.(The Presbyterian College), S.T.M., Ph.D.(McG.)

United Theological College of Montreal

3475 University Street, Montreal QC H3A 2A8

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

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

1.18.3 University Government

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

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

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

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

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

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

1.18.4 Recognition of Degrees

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

McGill University was a founding member of the organization that evolved into Universities Canada and remains an active member university to this day. In addition, McGill University is a member of the American Association of Universities (A.A.U.). It is also a member of the Association of Commonwealth Universities and the International Association of Universities. Its undergraduate, professional, and graduate degrees, including doctorates in a full range of disciplines, have been recognized by educational, government, and private 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 Mary Simon; C.C., C.M.M., C.O.M., O.Q., C.D., Governor General and Commander-in-Chief of Canada **Administrator of the Government 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
John McCall MacBain; OC, McGill University (BA), Wadham College, Oxford (MA), Harvard University (MBA)	Chancellor

1.18.5.2.1 Members

Members

Bob Babinski; B.A.(McG.)

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

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

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

Alan Desnoyers; B.Com.(McG.)

Claude Généreux; B.Eng.(McG.), M.A.(Oxf.)

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

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

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

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

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

Samuel Minzberg; LL.B.(McG.)

Maarika Paul; B.Com., Gr. Dip.(McG.), F.C.P.A., F.C.A., C.B.V.

Adrienne Piggott

Louise Pilote; M.P.H.(Harv.), Ph.D.(Calif., Berk.)

Samira Sakhia; B.Com., M.B.A.(McG.)

Karen Sciortino; B.A., B.F.A.(C'odia)

Cynthia Price Verreault; B.Com.(McG.)

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

Edith A. Zorychta; B.Sc.(St. FX), M.Sc., Ph.D.(McG.)

1.18.5.2.2 Student Representatives

Student Representatives

Students' Society of McGill (1)

Post-Graduate Students' Society of McGill (1)

Observers

Student Representatives

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

21 Student Members

1.18.7 Administration

McGill's Senior Administration and governing bodies—the *Board of Governors* and *Senate*—provide strategic guidance and oversight, ensuring accountability through a system of formal decision-making and reporting.

Please refer to mcgill.ca/about/administration to meet McGill's senior staff and learn about the University's administration and governance structure.

Administration

John McCall MacBain

Suzanne Fortier

Véronique Bélanger

Christopher Manfredi

Fabrice Labeau

Gillian Nycum

Martine Gauthier

Chris Buddle

Angela Campbell

Anja Geitmann

Marc Denoncourt

Edyta Rogowska

Chancellor

Principal and Vice-Chancellor

Chief of Staff

Provost and Vice-Principal (Academic)

Deputy Provost (Student Life & Learning)

University Registrar and Executive Director of Enrolment Services

Executive Director of Services for Students

Associate Provost (Teaching & Academic Programs)

Associate Provost (Equity & Academic Policies)

Associate Vice-Principal (Macdonald Campus) and Dean (Faculty of Agricultural & Environmental Sciences)

Chief Information Officer

Secretary-General

Administration

Yves Beauchamp	Vice-Principal (Administration & Finance)
Diana Dutton	Associate Vice-Principal (Human Resources)
Cristiane Tinmouth	Associate Vice-Principal (Financial Services)
Denis Mondou	Associate Vice-Principal (Facilities Management and Ancillary Services)
Louis Arsenault	Vice-Principal (Communications & External Relations)
David Eidelman	Vice-Principal (Health Affairs) and Dean (Faculty of Medicine and Health Sciences)
Sam Benaroya	Associate Vice-Principal (Health Affairs) and Vice-Dean (Faculty of Medicine and Health Sciences)
Martha Crago	Vice-Principal (Research & Innovation)
Philippe Gros	Deputy Vice-Principal (Research & Innovation)
Benoit Boulet	Associate Vice-Principal (Research & Innovation) (Innovation & Partnerships)
Debra Titone	Associate Vice-Principal (Research)
Marc Weinstein	Vice-Principal (University Advancement)
Line Thibault	General Counsel and Director of Legal Services
Giovanna Santullo	Executive Director, Internal Audit

1.18.7.1 Deans, Directors of Schools and Libraries
1.18.7.1.1 Deans
Deans

Anja Geitmann	Agricultural & Environmental Sciences
Mary Hunter (<i>Interim</i>)	Arts
Carola Weil	Continuing Studies
Elham Emami	Dental Medicine and Oral Health Sciences
Dilson Rassier	Education
James Nicell	Engineering
Josephine Nalbantoglu	Graduate & Postdoctoral Studies
Robert Leckey	Law
Colleen Cook	Libraries
Yolande E. Chan	Management
David Eidelman	Medicine and Health Sciences
Brenda Ravenscroft	Music
R. Bruce Lennox	Science
Robin Beech	Dean of Students

1.18.7.1.2 Directors of Schools
Directors of Schools

Martin Bressani	Architecture
Alba Guarné	Biomedical Sciences, School of
Susan Rvachew	Communication Sciences & Disorders
Bettina Kemme	Computer Science
Linda Wykes	Human Nutrition

Directors of Schools

Sylvie de Blois	Environment
Kimiz Dalkir	Information Studies
TBA	Medicine, School of
Anita Gagnon	Nursing
Laurie Snider	Physical & Occupational Therapy
Timothy Evans	Population & Global Health
Garth W. Green	Religious Studies
Nico Trocmé	Social Work
Richard Shearmur (<i>Interim</i>)	Urban Planning
Christopher Ragan	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. 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.

Email: frontctr@ssmu.ca

President: president@ssmu.ca

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

2 Faculty of Agricultural and Environmental Sciences**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.

2.2 History of the Faculty

Dedicated to improving the quality of life in Quebec's rural communities, Sir William Christopher Macdonald founded the School of Agriculture, the School for Teachers, and the School of Household Science at Macdonald College in Sainte-Anne-de-Bellevue in 1906. Macdonald College opened its doors to students in 1907 and its first degrees were awarded in 1911. The School for Teachers became the Faculty of Education in 1965 and moved to the downtown campus in 1970.

Currently, Macdonald Campus is home to the Faculty of Agricultural and Environmental Sciences, the School of Human Nutrition, and the Institute of Parasitology. The Faculty is comprised of the Departments of Animal Science, Bioresource Engineering, Food Science and Agricultural Chemistry, Natural

Resource Sciences, and Plant Science. The Faculty is one of the founding members of the Bieler School of Environment, and is also home to the Farm Management and Technology Program. The current enrolment exceeds 2,000 undergraduate and graduate students.

2.3 Macdonald Campus Facilities

2.3.1 Morgan Arboretum

The Morgan Arboretum is one of McGill's teaching and research stations. It has 245 hectares of managed and natural woodlands, fields, and tree plantations used for environmental research and teaching in a wide range of courses. Eighteen formal tree collections contain groups of Canadian native trees and many useful and important exotics. In addition, over 170 species of birds, 30 species of mammals, and 20 species of reptiles and amphibians seasonally inhabit the property. The Arboretum features 25 kilometres of ski, snowshoe, and walking trails in a variety of forest ecosystems that are available for members of the Morgan Arboretum and visitors. A nature interpretation program is also offered at different times of the year. Conservation projects and forest operations, such as the production of maple syrup and firewood, are routinely done on a small scale basis. More information is available at mcgill.ca/nrs/facilities/arboretum.

2.3.2 Macdonald Campus Library

Located in the Barton Building, the Macdonald Campus Library offers outstanding collections, facilities, and services to support a broad range of information needs. The Library's collections encompass a vast range of research material with a specific focus on the areas of agricultural sciences, nutrition, and environmental sciences.

The Library's website leads users to a wealth of information, including the library catalogue, article databases, McGill theses, and instructive web pages on how to gain access to the material and services available to users. The Library's eZone computers provide specialized software such as ArcGIS, STATA, and EndNote. Printer-photocopiers, comfortable seating, three group study rooms equipped with LCD monitors, and a 24-hour study area are also available to you.

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

More information is available at mcgill.ca/library/branches/macdonald, or feel free to drop by.

2.3.3 Macdonald Campus Computing Centre

The Macdonald Campus Computing Centre is managed by McGill's IT Customer Services (ICS) unit. Undergraduate computing labs are open 24/7, year round. These labs offer computers running Microsoft Office software, a variety of course-related software, and access to uPrint printers.

The IT Services Walk-in Centre, located in the Macdonald-Stewart Building, Room MS 2-025, is open Monday to Friday from 9:00 a.m. to 4:45 p.m. (At time of publication, temporarily closed due to Covid-19 restrictions). For support on all central IT services, contact the ICS Service Desk by email at ITsupport@mcgill.ca or call 514-398-3398.

For more information and to search the IT Knowledge Base, visit the IT Services web page at mcgill.ca/it.

2.3.4 Lyman Entomological Museum and Research Laboratory

Originally established in 1914 and formerly housed in the Redpath Museum, the Lyman Entomological Museum was moved to the Macdonald campus in 1961. It houses the largest university collection of insects in Canada, second in size only to the National Collection. The Museum also has an active graduate research program in association with the Department of Natural Resource Sciences. Study facilities are available, on request from the Curator, to all bona fide students of entomology. Visits by other interested parties can be arranged by calling 514-398-7914. More information is available at lyman.mcgill.ca.

2.3.5 Brace Centre for Water Resources Management

The Brace Centre for Water Resources Management spans two faculties, the Faculty of Engineering and the Faculty of Agriculture and Environmental Sciences, whose members carry out advanced multidisciplinary research related to addressing today's complex water challenges. The centre is also a local chapter of the Quebec water research network CentrEau. The centre's members engage in research, teaching, and specialized training, and draw on a wide range of facilities available within the University and the Montreal region. More information is available at mcgill.ca/brace.

2.4 About Agricultural & Environmental Sciences (Undergraduate)

2.4.1 Location

McGill University, Macdonald Campus
21, 111 Lakeshore Road
Sainte-Anne-de-Bellevue QC H9X 3V9

Canada
 Telephone: 514-398-7925
 Website: mcgill.ca/macdonald

The Faculty of Agricultural and Environmental Sciences and the School of Human Nutrition are located on the Macdonald Campus of McGill University, at the western end of the island of Montreal. Served by public transport (STM [www.stm.info], bus, and train), it is easily reached from the McGill Downtown Campus and from the Pierre Elliott Trudeau International Airport. Special arrangements can be made for prospective students to use the McGill inter-campus [shuttle bus service](#). The shuttle service is available to all registered students who attend classes on both campuses.

2.4.2 The Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition (Undergraduate)

The Faculty of Agricultural and Environmental Sciences and the School of Human Nutrition are located on McGill University's Macdonald Campus, which occupies 650 hectares in a beautiful waterfront setting on the western tip of the island of Montreal.

Students can earn internationally recognized degrees in the fields of agricultural sciences and applied biosciences; food and nutritional sciences; environmental sciences; and bioresource engineering. Students have the opportunity, in all programs, to study abroad in places such as Panama, Barbados, or Africa. Students may also have the opportunity to participate in internships.

Macdonald is a very diverse and international campus. Students are taught by outstanding professors who are among the top in their fields. The campus has excellent facilities for teaching and research, including well-equipped laboratories, experimental farm and field facilities, and the Morgan Arboretum. The campus is surrounded by the Ottawa and St. Lawrence rivers.

The Faculty is at the forefront of advances in the basic sciences and engineering associated with food supply; human health and nutrition; and the environment, and it is a world leader in plant and animal biotechnology, bioproducts and bioprocessing, bioinformatics, food safety and food quality, environmental engineering, water management, soils, parasitology, microbiology, and ecosystem science and management.

The Macdonald Campus is an exciting place to live, work, study, learn, and discover. Its very intimate collegial and residential setting allows for strong interaction between staff and students, and for enriched student activity and participation in extracurricular activities. A hallmark of our undergraduate programs is the ability to provide hands-on learning experiences in the field and labs, and the smaller class sizes.

2.4.3 Administrative Officers

Dean, Faculty of Agricultural and Environmental Sciences, and Associate Vice-Principal (Macdonald Campus)

Anja Geitmann

Associate Deans

Valérie Orsat; Salwa Karboune; Marilyn E. Scott; Jean-Benoit Charron.

Manager, Student Affairs

Silvana Pellecchia

Director, Academic and Administrative Services

Christine Butler

Assistant Director, Athletics and Recreation

Jill Barker

General Manager, Macdonald Campus Farm

TBA

Supervisor, Buildings and Grounds

TBA

Manager, Residence Life and Accommodations

Lindsay O'Connell

2.4.4 Faculty Admission Requirements

For information about admission requirements and application deadlines for this Faculty, please refer to the *Undergraduate Admissions Guide* found at mcgill.ca/applying.

Applications are submitted directly online at mcgill.ca/applying. Please note that the same application is used for all undergraduate programs at McGill and two program choices can be entered. For further information, contact:

Student Affairs Office
 Macdonald Campus of McGill University
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Telephone: 514-398-7925
 Email: studentinfo.macdonald@mcgill.ca
 Website: mcgill.ca/macdonald/prospective

For information about interfaculty transfers, see [University Regulations and Resources > Undergraduate > Registration > section 1.3.6: Interfaculty Transfer](#).

2.4.5 Student Information

Friendly staff are on hand to answer your questions about academics, residence, athletics, student life, health concerns, and much more.

2.4.5.1 Student Rights and Responsibilities

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

2.4.5.2 The Student Affairs Office

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

Website: mcgill.ca/macdonald/studentinfo/sao

2.4.5.3 Student Services

Please see [University Regulations and Resources > Undergraduate > Student Services > section 1.13.4: Student Services – Macdonald Campus](#). Further information is also available on our website: mcgill.ca/macdonald-studentservices.

All *eligible* McGill students are entitled to use the Student Services located on both campuses, regardless of the faculty they are enrolled in.

2.4.5.4 Macdonald Campus Residences

Please see [University Regulations and Resources > Undergraduate > Residential Facilities > section 1.14.2: University Residences – Macdonald Campus](#); mcgill.ca/students/housing/residence-options/macdonald; or email residences.macdonald@mcgill.ca.

2.4.5.5 Student Life

All undergraduate and Farm Management and Technology students are members of the *Macdonald Campus Students' Society* (MSCS). The MSCS, through the Students' Council, is involved in numerous campus activities such as social events, academic affairs, and the coordination of clubs and organizations.

The *Macdonald Campus Graduate Students' Society* (MCGSS) represents graduate students on the Macdonald Campus. MCGSS is part of McGill's *Post-Graduate Students' Society* (PGSS) which represents all graduate students at McGill.

2.4.5.6 Fees

Please refer to the [Student Accounts](#) website for information and step-by-step instructions regarding fees.

2.4.5.6.1 Tuition Fees

Detailed information about your fees are on your e-bill and account summary by term on which can be found on Minerva.

General information on tuition and other fees is found in [University Regulations & Resources > Undergraduate > section 1.4: Fees](#).

2.4.5.6.2 Other Expenses

In addition to tuition fees and the cost of accommodation and meals, you should be prepared to spend a minimum of \$1,000 (depending on your program) on prescribed textbooks and classroom supplies. These may be purchased at the [MCSS Bookstore](#) in the Centennial Centre.

Uniforms are required for food laboratories. If you are in the B.Sc.(Nutr.Sc.) program, you will be advised of the uniform requirements on acceptance or promotion.

2.4.5.7 Immunization for Dietetics Majors

As a student in the Dietetics Major, you are required to initiate and complete the Compulsory Immunization Program for Health Care Students in Fall of U1, in the NUTR 208 Professional Practice Stage 1A course. Students will meet with our health nurse at the beginning of U1 and should have all previous

vaccination records available at that time. Participation in any further Professional Practice (Stage) courses in the Dietetics program will only be permitted if all immunization requirements are complete. Updates to your immunizations may be required during your program. For full details, see mcgill.ca/wellness-hub/hub-clinical-services/medical-notes-and-immunization-reviews.

2.4.5.8 Language Requirement for Professions

Quebec law requires that candidates seeking admission to provincially recognised 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. A minimum of 72 McGill credits is required for the B.Eng.(Bioresource Engineering) degree.

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

2.4.6.2 Minimum Grade Requirement

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

2.4.6.3 Academic Advisers

Upon entering the Faculty and before registering, you must consult with the [academic adviser of your program](#) for selection and scheduling of required, complementary, and elective courses. The academic adviser will normally continue to act in this capacity for the duration of your studies in the 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 academic term. A normal course load is considered to be 15 credits per term. The maximum number of credits allowed per academic term is 18 credits. 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 take 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 Academic Standing in all the coursework.

The following rules apply to your Academic Standing:

1. When your CGPA (or TGPA in the first term of the program) falls below 2.00, your Academic Standing becomes Probationary.
2. If you are in Probationary Standing, you may register for no more than 14 credits per term.
3. While in Probationary Standing, you must achieve a TGPA of 2.50 to continue in Probationary Standing or a CGPA of 2.00 in order to return to Satisfactory Standing. Failure to meet at least one of these conditions will result in Unsatisfactory Standing. (In the case of Fall term, this will be Interim Unsatisfactory Standing and the rules for Probationary Standing will apply.)
4. When your CGPA (or TGPA in the first term of the program) falls below 1.50, your Academic Standing becomes Unsatisfactory and you must withdraw. (In the case of Fall term, the Standing will be Interim Unsatisfactory Standing and the rules for Probationary Standing will apply.)
5. If you are in Unsatisfactory Standing, you may not continue in your program. You may apply for readmission only after your registration has been interrupted for at least one term (not including Summer term).
6. Readmission will be in the Standing Unsatisfactory/Readmit and a CGPA of 2.00 must be achieved to return to Satisfactory Standing or a TGPA of 2.50 must be achieved for Probationary Standing. If you fail to meet at least one of these conditions, you will be required to withdraw permanently.
7. Students in the School of Human Nutrition have additional standards in place for the professional program (Dietetics). See [section 2.6.5.1: Bachelor of Science \(Nutritional Sciences\) \(B.Sc.\(Nutr.Sc.\)\) - Major Dietetics \(115 credits\)](#).

2.4.6.5.1 Committee on Academic Standing

The Faculty's Committee on Academic Standing, consisting of academic staff, administrative staff, and a student representative, reviews special requests made by students regarding their academic life. Please inquire at the Student Affairs Office, Laird Hall 106, to obtain an application.

2.4.6.6 Credit System

The credit assigned to a particular course reflects the amount of effort it demands of you. Normally, one credit will represent three hours total work per week for one term - including a combination of lecture hours and other contact hours such as laboratory periods, tutorials, and problem periods as well as personal study hours. For a standard three credit course, a student should expect to do nine hours of work per week.

Refer to [University Regulations and Resources > Undergraduate > Student Records > section 1.5.2: Credit System](#).

2.4.6.6.1 School of Continuing Studies Courses

Not all School of Continuing Studies credit courses are recognized for credit within Faculty degree programs. Please contact the Faculty Adviser in the Student Affairs Office before registering for such courses.

2.4.6.7 Academic Credit Transfer

Transfer credits based on courses taken at other institutions (completed with a grade that is equal to or higher than the grade/CGPA required to graduate from the host university) before entrance to this Faculty are calculated and assigned after you are accepted, and have accepted the offer of admission.

Transfer credits may also be granted for courses taken at other university level institutions (completed with a grade that is equal to or higher than the grade/CGPA required to graduate from the host university) while you are attending McGill University. You must secure permission to apply such credits to your program in this Faculty before you begin the work. Grades obtained in such courses do not enter into calculations of grade point averages (GPA).

Exemption from a required or complementary course on the basis of work completed at another institution must be approved by both the instructor of the appropriate McGill course and the Academic Adviser.

As a full-time degree student, you may register, with approval of the Student Affairs Office, for course(s) at any university in the province of Quebec through BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ). Those courses successfully completed with a minimum grade of C (according to the standards of the university giving the course) will be recognized for the purpose of your degree, but the grades obtained will not enter into your GPA calculations.

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 one month 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 further details, consult [University Regulations and Resources > Undergraduate > Student Records > section 1.5.6: Transfer Credits](#) and [Undergraduate > Registration > section 1.3.7: Quebec Inter-University Transfer Agreement](#), or go to www.bci-qc.ca to access the online application.

2.4.6.8 Second Academic Majors

While registered in a major in the Faculty of Agricultural and Environmental Sciences, you may pursue a second set of courses of greater scope than a minor (e.g., Faculty program, Major, Honours program, Major concentration) in either this Faculty or another faculty. Application for a Second Academic Major must be made to the Associate Dean (Student Affairs) in the Student Affairs Office, Laird Hall, Room 106.

Following are the regulations and procedures for Second Academic Majors:

1. You must be in Satisfactory Academic Standing with a minimum CGPA of 3.00 in order to apply for a Second Academic Major.

2. In consultation with the appropriate authority associated with each major (Academic Adviser, Associate Dean), you must construct a proposal showing all the courses that are to be taken to satisfy the entrance and program requirements of both the First and Second Academic Majors.
3. A minimum of 36 credits must be unique to the Second Major (i.e., not part of the required or complementary courses taken for the First Major).
4. You must obtain prior approval for all proposed Second Academic Majors from your Academic Adviser and the Student Affairs Office and from the Associate Dean, adviser, or appropriate committee of the other faculty concerned.
5. Normally, proposals for Second Academic Majors will be initiated before completion of U1 year of the First Academic Major.
6. The academic standards applicable to each major will be respected.

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 3.2. Final approval must be obtained from Enrolment Services. Be advised that graduate courses taken for credit toward an undergraduate degree will not be credited toward a graduate program.

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

2.4.6.11 Attendance and Conduct in Class

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

Students may be admonished by a professor or instructor for dishonest or improper conduct. If disciplinary action is 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 1.6.3.3.2: 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 1.6.3.2: 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 have completed the Stages of professional formation requiring a CGPA of 3.00.

You must have completed all Faculty and program requirements; see [section 2.4.6.1: Minimum Credit Requirement](#) in this publication.

In order to qualify for a McGill degree, you must complete a minimum residency requirement of 60 credits at McGill. If you are in the B.Sc.(Ag.Env.Sc.), you must take a minimum of two-thirds of your course credits within the Faculty of Agricultural and Environmental Sciences.



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

2.4.6.15 Graduation Honours

For information on the designation of graduation honours and awards, see [University Regulations and Resources](#) > Undergraduate > Graduation > [section 1.9.3: Graduation Honours](#).

2.4.6.16 Scholarships, Bursaries, Prizes, and Medals

Various scholarships, bursaries, prizes, and medals are open to entering, in-course, and graduating students. No application is required. Full details see mcgill.ca/macdonald/studentinfo/undergrads/scholarships.

2.5 Overview of Programs Offered

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

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

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

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

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

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

The Faculty also offers M.Sc. and Ph.D. programs in a variety of areas. Further information about these programs is available in the Faculty of Agricultural and Environmental Studies [Graduate and Postdoctoral Studies](#) section.

Programs Offered by the Faculty of Agricultural and Environmental Sciences

[section 2.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) – B.Sc.\(Ag.Env.Sc.\)](#)

[section 2.6.3: Bachelor of Engineering \(Bioresource\) – B.Eng.\(Bioresource\)](#)

[section 2.6.4: Bachelor of Science \(Food Science\) - B.Sc.\(F.Sc.\)](#)

[section 2.6.5: Bachelor of Science \(Nutritional Sciences\) – B.Sc.\(Nutr.Sc.\)](#)

[section 2.5.7: Concurrent Bachelor of Science in Food Science – B.Sc.\(F.Sc.\) and Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\) \(Overview\)](#)

[section 2.5.8: Honours Programs \(Overview\)](#)

[section 2.5.9: Minor Programs \(Overview\)](#)

[section 2.5.10: Post-Baccalaureate Certificate Programs \(Overview\)](#)

[section 2.5.11: Diploma Program \(Undergraduate\) \(Overview\)](#)

[section 2.5.12: Diploma in Collegial Studies \(Overview\)](#)

Programs Offered by the Faculty of Agricultural and Environmental Sciences

[section 2.5.13: Environmental Sciences Programs \(Overview\)](#)

2.5.1 Internship Opportunities

Internships allow students to gain practical, hands-on experience and develop skill sets that are frequently in high demand by employers. Internships involve a work placement where you are exposed to the main areas of operation of your employer. Each work placement is unique, and you benefit from a program developed exclusively for you by your employer and your instructor.

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 and mcgill.ca/macdonald/studentinfo/undergrads/studying-away-mcgill](#) > Undergraduate > [section 12.4: Exchange Programs](#).

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

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



Note: Students choosing the major in Environment will select a domain instead of a specialization.



Note: Specializations in the Agricultural Economics major are restricted to Agricultural Economics students.

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 (*) can be 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)
- Environment – see [Bieler 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: Specialisations](#).

- 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 \(24 credits\)](#)
- Professional Agrology for Agribusiness, [section 2.6.2.2.14: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Professional Agrology for Agribusiness \(24 credits\)](#)
- 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 a unique branch of engineering that encompasses biological engineering, agricultural engineering, food engineering, environmental engineering and other traditional engineering disciplines, focusing on applying professional engineering skills to biological systems. The fundamental basis of bioresource engineering is transdisciplinary interactions between engineering science and design, with biological, physical, chemical, and other natural sciences. Bioresource engineers strive to design and implement solutions to sustain food supply and the well-being of society while maintaining high-quality of the environment for generations to come.

Together with other B.Eng. programs offered by peer engineering departments in the Faculty of Engineering, Bioresource Engineering is accredited through Engineers Canada Accreditation Boards. Therefore, graduates of the bachelor bioresource engineering program are eligible for registration as professional engineers in any province in Canada, as well as some international jurisdictions. The available Professional Agrology option also qualify graduates to apply for registration to the *Ordre des agronomes du Québec* and similar licensing bodies in other provinces.

The Complementary portion of the Bioresource Engineering curriculum is organised according to three non-restrictive streams, including: Bio-Environmental Engineering, Bio-Process Engineering and Bio-Production Engineering.

Students who follow 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.

Through 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 natural sciences and engineering skills to design systems and machines for the production of different types of crop, animal-based products, and biomass. Students learn about design of machines and structures, different production systems and technologies, instrumentation and controls, geospatial data management, precision agriculture, and emerging intelligent bio-production concepts.

In addition, students may choose to follow the **Professional Agrology** option of Bioresource Engineering (usually associated with the Bio-Production Engineering stream) as well as the Bioresource Engineering Honors Program. Multiple minors are also available. For details related to curriculum options and to select the most suitable stream, please refer to the Departmental website at mcgill.ca/bioeng

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



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

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

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

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

Food Science

- Food Chemistry Option
- Food Science Option

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

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

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

Nutritional Sciences Majors

- Dietetics (professional program leading to professional licensing as Dietitian/Nutritionist)
- Nutrition (available in five concentrations):

- Food Function and Safety
- Global Nutrition
- Health and Disease
- Nutritional Biochemistry
- Sports Nutrition

- Food Science/Nutritional Sciences (concurrent degree)

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

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

Freshman Adviser

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

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

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

2.5.8 Honours Programs (Overview)

Honours Programs

- [section 2.6.2.1.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Honours Agricultural Economics \(42 credits\)](#)
- [section 2.6.2.1.4: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Honours Agro-Environmental Sciences \(54 credits\)](#)
- [section 2.6.2.1.6: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Honours Environmental Biology \(54 credits\)](#)
- [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 [Bieler School of Environment](#)

2.5.9 Minor Programs (Overview)

Minor Programs

- Agribusiness Entrepreneurship – [section 2.6.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Agribusiness Entrepreneurship \(18 credits\)](#)
- Agricultural Economics – [section 2.6.6.3: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Agricultural Economics \(24 credits\)](#)
- Agricultural Production – [section 2.6.6.4: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Agricultural Production \(24 credits\)](#)
- Animal Biology – [section 2.6.6.5: Bachelor of Engineering \(Bioresource\) \(B.Eng.\(Bioresource\)\) - Minor Animal Biology \(24 credits\)](#)
- Animal Health and Disease – [section 2.6.6.6: Bachelor of Engineering \(Bioresource\) \(B.Eng.\(Bioresource\)\) - Minor Animal Health and Disease \(24 credits\)](#)
- Applied Ecology – [section 2.6.6.7: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Applied Ecology \(24 credits\)](#)
- Ecological Agriculture – [section 2.6.6.8: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Ecological Agriculture \(24 credits\)](#)
- Environmental Engineering – [section 2.6.6.9: Minor in Environmental Engineering](#)
- Human Nutrition – [section 2.6.6.10: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor Human Nutrition \(24 credits\)](#)
- International Agriculture – [section 2.6.6.11: Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) - Minor International Agriculture \(24 credits\)](#)
- Environment – listed under [Bieler School of Environment](#) > Undergraduate > Minor in 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 \(18 credits\)](#)
- Some minors of interest to FAES students can also be found at [section 9.8.7: Minors for Non-Management Students](#) – listed under [Desautels Faculty of Management](#)

2.5.10 Post-Baccalaureate Certificate Programs (Overview)

The Faculty offers the following post-baccalaureate certificate programs.

Post-Baccalaureate Certificate Programs

- Ecological Agriculture
- Food Science

Please refer to [section 2.6.7: Post-Baccalaureate Certificate Programs](#) for program descriptions and details.

2.5.11 Diploma Program (Undergraduate) (Overview)

Diploma Program (Undergraduate)

- Diploma in Environment – see [Bieler School of Environment](#) > Undergraduate > Diploma in Environment > [section 7.7.8.1: Diploma \(Dip.\) Environment \(30 credits\)](#)

2.5.12 Diploma in Collegial Studies (Overview)

Diploma in Collegial Studies

- [section 2.7.3: Farm Management and Technology Program](#)

2.5.13 Environmental Sciences Programs (Overview)

2.5.13.1 Bieler School of Environment

The Bieler School of Environment is a joint initiative of the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, and the Faculty of Science. 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. These programs allow you to choose to study on both the Macdonald and Downtown campuses.

2.5.13.2 Environmental Programs on the Macdonald Campus

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

2.5.14 Graduate Programs

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

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

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

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

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

2.6 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. in Food Science (F.Sc.), a B.Sc. in Nutritional Sciences (Nutr.Sc.), a B.Eng. in Bioresource Engineering or concurrent B.Sc. in both Food Science and Nutritional Sciences. The Faculty also offers post-baccalaureate undergraduate Certificate programs in Food Science and Ecological Agriculture as well as a Diploma in Environment.

The Bieler School of Environment also offers several B.Sc.(Ag.Env.Sc.) programs; for more information, please visit the [Bieler 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 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
AGRI 196	(.5)	Freshman Seminar 2

Elective - Winter (3 credits)

B.Sc. (Ag. & Env. Sci.) - Agricultural Economics Major - 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.

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 credits)

AECH 110	(4)	General Chemistry 1
AEMA 101	(3)	Calculus 1
AEPH 112	(4)	Introductory Physics 1
AGEC 200**	(3)	Principles of Microeconomics

Required Courses - Winter (10 credits)

AEBI 122	(3)	Cell Biology
AEHM 205	(3)	Science Literacy
AEMA 102	(4)	Calculus 2

Complementary Courses - Winter (6 credits)

One of the following:

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

One of the following:

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

Advising Notes:

* Freshman students intending to major in Agricultural Economics in the B.Sc. (Ag. & Env. Sci.) degree program should note that the courses AEBI 120 (General Biology), AECH 111 (General Chemistry 2), and AEPH 114 (Introductory Physics 2) are required for all other majors in the B.Sc. (Ag. & Env. Sci.) degree. Students who are uncertain about their choice of major should be completing the "regular" Agricultural & Environmental Sciences Freshman program; the AGECE 200/201 courses would then be taken as part of the "regular" U1 curriculum should they ultimately decide on the Agricultural Economics Major.

** Freshman students planning to choose the Agricultural Economics Major will still be required to complete 90 credits in the Major. Since AGECE 200 and AGECE 201/AGECE 231 are normally required in the U1 year of the program, students who take these courses in their freshman year will be required to substitute 6 other credits. Students should discuss suitable replacement courses with their adviser.

2.6.1.2 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - 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 113	(4)	Physics 1
BREE 187	(.5)	Freshman Seminar 1

Required Courses - Winter (15.5 credits)

AECH 111	(4)	General Chemistry 2
AEMA 102	(4)	Calculus 2
AEPH 115	(4)	Physics 2
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
AGRI 196	(.5)	Freshman Seminar 2

Elective - Winter (3 credits)
2.6.1.4 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Freshman Program (30 credits)

The B.Sc.(Nutr.Sc.) Freshman Program is designed to provide the required science entrance prerequisites for students entering university for the first time from a high school system (outside of the Quebec CEGEP system).

Required Courses - Fall (14.5 credits)

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

Required Courses - Winter (15.5 credits)

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

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

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

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

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

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

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

Required Courses - Fall (14.5 credits)

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

Required Courses - Winter (15.5 credits)

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

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

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

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

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

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

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

The B.Sc.(Agr.Env.Sc.); Major in Agricultural Economics is designed to meet the demand for sustainable development as it relates to the environment and resource use, and the economics and management of the global agriculture and food system. This multidisciplinary program in applied economics involves the application of theory and analytical methods to environmental issues and the agricultural and food system. Training in economic theory and applied areas such as marketing, finance, farm management, public policy, ecology, natural resources, and international development.

Program Prerequisites

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

Required Courses (36 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 332	(3)	Farm Management and Finance
AGEC 333	(3)	Resource Economics
AGEC 425	(3)	Applied Econometrics
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development
ENVB 210	(3)	The Biophysical Environment
MGCR 211	(3)	Introduction to Financial Accounting

Complementary Courses (6 credits)

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

Statistics

Written/Oral Communication

Specialization (24 credits)

Specializations designed to be taken with the Agricultural Economics Major:

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

- Agribusiness (24 credits)

- Environmental Economics (24 credits)

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

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

Electives

To meet the minimum credit requirement for the degree.

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

This program is currently not offered.

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

In addition to satisfying the research requirements, students must apply for the Honours program in March or April of their U2 year. It is the responsibility of the student to 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.

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 and Methodology
ENVB 210	(3)	The Biophysical Environment

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

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

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

Honours Plan B

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

FAES 405	(3)	Honours Project 1
FAES 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).

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

Program Prerequisites

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

Required Courses (36 credits)

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

Complementary Courses (6 credits)

6 credits of complementary courses selected as follows:

One of:

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

One of:

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

Specialization

Choose at least one specialization of 18-24 credits.

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

- Animal Production
- Ecological Agriculture
- Plant Production
- *Professional Agrology
- Soil and Water Resources

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

Electives

To meet the minimum credit requirement for the degree.

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

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

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

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

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

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

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

Program Prerequisites

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

Required Courses (36 credits)

AEBI 210	(3)	Organisms 1
AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGEC 231	(3)	Economic Systems of Agriculture
AGRI 215	(3)	Agro-Ecosystems Field Course
ANSC 250	(3)	Principles of Animal Science

ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
SOIL 315	(3)	Soil Nutrient Management

Complementary Courses (18 credits)

3 credits from the following:

PLNT 300	(3)	Cropping Systems
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

12 credits of 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.

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

Honours Plan B

6 credits of Honours project courses in the subject area of the student's Major as well as 6 credits in 400- or 500-level courses, normally selected from the Faculty of Agricultural and Environmental Sciences, in consultation with the Program Director of the student's Major and the professor who has agreed to supervise the project.

AGRI 405	(3)	Honours Project 1
AGRI 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*

* 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.

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
ENVB 210	(3)	The Biophysical Environment
ENVB 222	(3)	St. Lawrence Ecosystems
ENVB 305	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

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

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.

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

12 credits of 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.

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

OR

Honours Plan B

6 credits of Honours project courses in the subject area of the student's Major as well as 6 credits in 400- or 500-level courses, normally selected from the Faculty of Agricultural and Environmental Sciences, in consultation with the Program Director of the student's Major and the professor who has agreed to supervise the project.

ENVB 405	(3)	Honours Project 1
ENVB 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 government, non-government and international institutions in the areas of international and sustainable development, international research and project management, agri-business, and food and agriculture policy analysis.

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

Program Prerequisites

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

Required Courses (33 credits)

AEBI 210	(3)	Organisms 1
AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 493	(3)	International Project Management
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
INTD 200	(3)	Introduction to International Development
NUTR 207	(3)	Nutrition and Health
NUTR 341	(3)	Global Food Security

Complementary Courses (9 credits)

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 499	(3)	Agricultural Development Internship
ANSC 420	(3)	Animal Biotechnology
BREE 217	(3)	Hydrology and Water Resources
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
NRSC 221	(3)	Environment and Health
NUTR 501	(3)	Nutrition in Developing Countries
PLNT 300	(3)	Cropping Systems
PLNT 435	(3)	Plant Breeding
SOIL 315	(3)	Soil Nutrient Management
SOIL 326	(3)	Soils in a Changing Environment

Specialization (24 credits)

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

2.6.2.1.8 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Global Food Security (54 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 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. 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 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 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 government, non-government, and international institutions in the areas of international and sustainable development, international research and project management, agri-business, and food and agriculture policy analysis.

Program Prerequisites

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

Required Courses (33 credits)

AEBI 210	(3)	Organisms 1
AEMA 310	(3)	Statistical Methods 1
AGEC 200	(3)	Principles of Microeconomics
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 493	(3)	International Project Management
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
INTD 200	(3)	Introduction to International Development
NUTR 207	(3)	Nutrition and Health
NUTR 341	(3)	Global Food Security

Complementary Courses (21 credits)

9 credits from the following:

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 499	(3)	Agricultural Development Internship
ANSC 420	(3)	Animal Biotechnology
BREE 217	(3)	Hydrology and Water Resources
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
NRSC 221	(3)	Environment and Health
NUTR 501	(3)	Nutrition in Developing Countries
PLNT 300	(3)	Cropping Systems
PLNT 435	(3)	Plant Breeding
SOIL 315	(3)	Soil Nutrient Management
SOIL 326	(3)	Soils in a Changing Environment

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 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.

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

Program Prerequisites

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

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

Required Courses (33 credits)

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

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

Complementary Courses (9 credits)

9 credits of the complementary courses selected from:

ANSC 234	(3)	Biochemistry 2
ANSC 250	(3)	Principles of Animal Science
ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 420	(3)	Animal Biotechnology
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
ENVB 210	(3)	The Biophysical Environment
ENVB 222	(3)	St. Lawrence Ecosystems
FAES 300	(3)	Internship 2
LSCI 451	(3)	Research Project 1
LSCI 452	(3)	Research Project 2
MICR 331	(3)	Microbial Ecology
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.

2.6.2.1.10 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Honours Life Sciences (Biological and Agricultural) (54 credits)

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.

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 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.

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
LSCI 202	(3)	Molecular Cell Biology
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
LSCI 401	(6)	Honours Research Project 1
LSCI 402	(6)	Honours Research Project 2
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
- Plant Science

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 Specialisations

The faculty offers the following specialisations, to be paired with a B.Sc.(Ag.Env.Sc.) major. Each major program description has a list of suggested specialisations. A different specialisation 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 (12 credits)

AEBI 210	(3)	Organisms 1
AGEC 450	(3)	Agribusiness Management
AGEC 491	(3)	Research and Methodology
ANSC 250	(3)	Principles of Animal Science

Complementary Courses (12 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 222	(3)	Introduction to Organizational Behaviour
MGCR 331	(3)	Information Systems

MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 382	(3)	International Business
ORGB 321	(3)	Leadership

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

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

The specialization in Animal Biology is intended for students who wish to further their studies in the basic biology of 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 biology programs, and to work in many laboratory settings.

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

Required Courses (15 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 420	(3)	Animal Biotechnology
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits selected from:

ANSC 234	(3)	Biochemistry 2
ANSC 251	(3)	Comparative Anatomy
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 555	(3)	The Use and Welfare of Animals
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
LSCI 451	(3)	Research Project 1

2.6.2.2.3 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Animal Health and Disease (24 credits)

This specialization is offered for students wishing to understand general animal physiology and function; the susceptibility of animals to various diseases; methods for limiting and controlling potential outbreaks; and the resulting implications for the animal, the consumer and the environment. It is an ideal choice for students interested in the care of animals, or in working in laboratories where diseases are being researched.

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

Required Courses (18 credits)

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

PARA 424 (3) Fundamental Parasitology

Complementary Courses (6 credits)

6 credits of complementary courses selected from:

ANSC 234	(3)	Biochemistry 2
ANSC 251	(3)	Comparative Anatomy
ANSC 303	(2)	Farm Livestock Internship
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 555	(3)	The Use and Welfare of Animals
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 mis-use often degrades the ability of ecosystems to provide the benefits and services we value. In the Applied Ecology specialization 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. You will learn concepts and tools that help you to deal with the complexity that an ecosystem perspective brings. The goal of this specialization 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 and Community Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 437	(3)	Assessing Environmental Impact
ENVB 529	(3)	GIS for Natural Resource Management

Complementary Courses (12 credits)

12 credits selected from the following:

AGRI 340	(3)	Principles of Ecological Agriculture
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AGRI 435	(3)	Soil and Water Quality Management
BREE 327	(3)	Bio-Environmental Engineering
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)	Soil Ecology
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)	Soil Ecology

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

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

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

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

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

Required Courses (12 credits)

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

Complementary Courses (12 credits)

12 credits chosen from the following list:

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

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

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

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

Required Courses (6 credits)

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

Complementary Courses (18 credits)

Students select either Option A or Option B.

Option A

18 credits from the following:

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

Option B

15 credits from any of the McGill Field Study Semesters

African Field Study Semester

Barbados Field Study Semester

Barbados Interdisciplinary Tropical Studies Field Semester

Panama Field Study Semester

3 credits from the list in Option A

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

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

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

Complementary Courses (24 credits)

24 credits selected from the following list:

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 350	(3)	Food-Borne Pathogens
ANSC 420	(3)	Animal Biotechnology
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 560	(3)	Biology of Lactation

ANSC 565	(3)	Applied Information Systems
BINF 511	(3)	Bioinformatics for Genomics
BTEC 306	(3)	Experiments in Biotechnology
BTEC 535	(3)	Functional Genomics in Model Organisms
BTEC 555	(3)	Structural Bioinformatics
ENTO 330	(3)	Insect Biology
ENTO 352	(3)	Biocontrol of Pest Insects
ENVB 301	(3)	Meteorology
ENVB 305	(3)	Population and Community Ecology
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 506	(3)	Quantitative Methods: Ecology
ENVB 529	(3)	GIS for Natural Resource Management
FDSC 442	(3)	Food Microbiology
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity
MICR 450	(3)	Environmental Microbiology
NUTR 337	(3)	Nutrition Through Life
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PARA 410	(3)	Environment and Infection
PARA 424	(3)	Fundamental Parasitology
PARA 515	(3)	Water, Health and Sanitation
PLNT 304	(3)	Biology of Fungi
PLNT 305	(3)	Plant Pathology
PLNT 310	(3)	Plant Propagation
PLNT 353	(3)	Plant Structure and Function
PLNT 358	(3)	Flowering Plant Diversity
PLNT 426	(3)	Plant Ecophysiology
PLNT 434	(3)	Weed Biology and Control
PLNT 435	(3)	Plant Breeding
PLNT 460	(3)	Plant Ecology

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

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

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

Required Courses (18 credits)

BTEC 306	(3)	Experiments in Biotechnology
MICR 331	(3)	Microbial Ecology
MICR 338	(3)	Bacterial Molecular Genetics
MICR 341	(3)	Mechanisms of Pathogenicity

MICR 450	(3)	Environmental Microbiology
PARA 424	(3)	Fundamental Parasitology

Complementary Courses and Suggested Electives (6 credits)

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

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

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

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
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 322	(3)	Greenhouse Management
SOIL 535	(3)	Soil Ecology

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

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

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

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

Required Courses (15 credits)

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

Complementary Courses (9 credits)

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

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

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

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

Required Courses (12 credits)

AGRI 330	(1)	Agricultural Legislation
AGRI 410D1	(3)	Agrology Internship
AGRI 410D2	(3)	Agrology Internship

AGRI 430	(2)	Professional Practice in Agrology
AGRI 490	(3)	Agri-Food Industry Project

Complementary Courses (12 credits)

6 credits from:

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

3 credits from:

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

3 credits from:

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

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

** This program is currently not offered. **

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

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

Required Courses (15 credits)

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

Complementary Courses (9 credits)

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

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

SOIL 510 (3) Environmental Soil Chemistry

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

This specialization focuses on the ecology of vertebrate animals, their biological and physical environment, and the interactions that are important in the management of ecological communities and wildlife species. Students have access to local wildlife resources including the Avian Science and Conservation Centre, the McGill Arboretum, the Stonycroft Wildlife Area, the Molson Reserve, and the Ecomuseum.

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

Required Courses (16 credits)

ENVB 529	(3)	GIS for Natural Resource Management
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
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)

The B.Eng.(Bioresource); Major in Bioresource Engineering program focuses on biological, agricultural, food, environmental areas, and applying professional engineering skills to biological systems. The design and implementation of technology for the creation of bio-based products, including food, fiber, fuel, and biomaterials, while sustaining a healthful environment. Graduates of this program are eligible for registration as professional engineers in any province across Canada, as well as in some international jurisdictions.

Required Courses (62 credits)

AEMA 202	(3)	Intermediate Calculus
AEMA 305	(3)	Differential Equations
BREE 205	(3)	Engineering Design 1
BREE 210	(3)	Mechanical Analysis and Design
BREE 216	(3)	Bioresource Engineering Materials
BREE 252	(3)	Computing for Engineers
BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics
BREE 312	(3)	Electric Circuits and Machines

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
BREE 504	(3)	Instrumentation and Control
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)

Set A

3 credits from the following:

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

3 credits from the following:

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

Set B - Natural Sciences and Mathematics

Minimum of 3 credits chosen from the following list:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
ENVB 210	(3)	The Biophysical Environment
ENVB 305	(3)	Population and Community Ecology
LSCI 202	(3)	Molecular Cell Biology
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
PLNT 300	(3)	Cropping Systems

With 6 credits chosen in consultation with the Academic Adviser.

Set C - Social Sciences

Minimum of 3 credits from the following list:

ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SOCI 235	(3)	Technology and Society

Note: ENVR courses have limited enrolment.

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.

Set D - Engineering

27 credits from the following list, 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 403	(3)	Biological Material Properties
BREE 412	(3)	Machinery Systems Engineering
BREE 416	(3)	Engineering for Land Development
BREE 419	(3)	Structural Design
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 502	(3)	Drainage/Irrigation Engineering
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 522	(3)	Bio-Based Polymers
BREE 529	(3)	GIS for Natural Resource Management
BREE 530	(3)	Fermentation Engineering
BREE 531	(3)	Post-Harvest Drying
BREE 532	(3)	Post-Harvest Storage
BREE 533	(3)	Water Quality Management
BREE 535	(3)	Food Safety Engineering

2.6.3.2 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Honours Bioresource Engineering (113 credits)

The B.Eng.(Bioresource); Honours in Bioresource Engineering program focuses on biological, agricultural, food, environmental areas, and applying professional engineering skills to biological systems. The design and implementation of technology for the creation of bio-based products, including food, fibre, fuel, and biomaterials, while sustaining a healthful environment. Graduates of this program are eligible for registration as professional engineers in any province across Canada, as well as in some international jurisdictions.

Required Courses (62 credits)

AEMA 202	(3)	Intermediate Calculus
AEMA 305	(3)	Differential Equations
BREE 205	(3)	Engineering Design 1
BREE 210	(3)	Mechanical Analysis and Design
BREE 216	(3)	Bioresource Engineering Materials
BREE 252	(3)	Computing for Engineers
BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics
BREE 312	(3)	Electric Circuits and Machines
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
BREE 504	(3)	Instrumentation and Control
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)
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.

Set A

3 credits from the following:

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

3 credits from the following:

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

Set B - Natural Sciences and Mathematics

3 credits chosen from the list below:

AEBI 210	(3)	Organisms 1
AEBI 211	(3)	Organisms 2
ENVB 210	(3)	The Biophysical Environment
ENVB 305	(3)	Population and Community Ecology
ENVB 315	()	
LSCI 202	(3)	Molecular Cell Biology
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
PLNT 300	(3)	Cropping Systems

Plus 6 credits chosen in consultation with the Academic Adviser.

Set C - Social Sciences

Minimum of 3 credits from the following list:

ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SOCI 235	(3)	Technology and Society

Note: ENVR courses have limited enrolment.

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.

Set D - Engineering

15 credits from the following list, 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
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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 403	(3)	Biological Material Properties
BREE 412	(3)	Machinery Systems Engineering
BREE 416	(3)	Engineering for Land Development
BREE 419	(3)	Structural Design
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 502	(3)	Drainage/Irrigation Engineering
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 522	(3)	Bio-Based Polymers
BREE 529	(3)	GIS for Natural Resource Management
BREE 530	(3)	Fermentation Engineering
BREE 531	(3)	Post-Harvest Drying
BREE 532	(3)	Post-Harvest Storage
BREE 533	(3)	Water Quality Management
BREE 535	(3)	Food Safety Engineering

2.6.3.3 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Major Bioresource Engineering - Professional Agrology (113 credits)

The B.Eng.(Bioresource); Major in Bioresource Engineering; Professional Agrology program focuses on biological, agricultural, food, environmental areas, and applying professional engineering skills to biological systems. The design and implementation of technology for the creation of bio-based products, including food, fibre, fuel, and biomaterials, while sustaining a healthful environment. Graduates of this program are eligible for registration as professional engineers in any province across Canada, as well as in some international jurisdictions. This program qualifies graduates to apply for registration in the Ordre des agronomes du Québec and similar licensing bodies in other provinces in addition to the professional engineer licensing.

Required Courses (65 credits)

AEMA 202	(3)	Intermediate Calculus
AEMA 305	(3)	Differential Equations
AGRI 330	(1)	Agricultural Legislation
AGRI 430	(2)	Professional Practice in Agrology
BREE 205	(3)	Engineering Design 1
BREE 210	(3)	Mechanical Analysis and Design
BREE 216	(3)	Bioresource Engineering Materials
BREE 252	(3)	Computing for Engineers
BREE 301	(3)	Biothermodynamics
BREE 305	(3)	Fluid Mechanics

BREE 312	(3)	Electric Circuits and Machines
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
BREE 504	(3)	Instrumentation and Control
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 (48 credits)

48 credits of the complementary courses selected as follows:

Set A

3 credits from the following:

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

3 credits from the following:

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

Set B - Natural Sciences

Group 1 - Biology

6 credits from the following list:

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

6 credits from the following list:

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
ENVR 203	(3)	Knowledge, Ethics and Environment
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SOCI 235	(3)	Technology and Society

Note: ENVR courses have limited enrolment.

Set D - Engineering

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

Minimum of 6 credits from each of Group 1, Group 2 and Group 3 with the option (and approval of the Academic Adviser) of taking 6 credits from courses offered in the Faculty of Engineering.

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 502	(3)	Drainage/Irrigation Engineering
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 403	(3)	Biological Material Properties
BREE 412	(3)	Machinery Systems Engineering
BREE 419	(3)	Structural Design
BREE 497	(3)	Bioresource Engineering Project
BREE 501	(3)	Simulation and Modelling
BREE 522	(3)	Bio-Based Polymers

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

2.6.3.4.1 Minor in Environmental Engineering

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

2.6.3.4.2 Barbados Field Study Semester

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

2.6.3.4.3 Internship Opportunities

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

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

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

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

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

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

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

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

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

Required Courses (51 credits)

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

AEMA 310	(3)	Statistical Methods 1
AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology

FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar
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. A portion of these credits should be in the humanities/social sciences.

2.6.4.2 Bachelor of Science (Food Science) (B.Sc.(F.Sc.)) - Honours Food Science - Food Science Option (90 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 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. 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.

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 after 90 credits with free elective courses.

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

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

Required Courses (51 credits)

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

AEMA 310	(3)	Statistical Methods 1
AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
FDSC 200	(3)	Introduction to Food Science
FDSC 213	(3)	Analytical Chemistry 1
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 310	(3)	Post Harvest Fruit and Vegetable Technology
FDSC 319	(3)	Food Commodities
FDSC 330	(3)	Food Processing
FDSC 400	(3)	Food Packaging
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar
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 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

Elective Courses (6 credits)

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

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

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

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

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

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

Required Courses (54 credits)

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

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

Additional Required Courses - Food Chemistry Option (30 credits)

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

FDSC 233	(3)	Physical Chemistry
FDSC 305	(3)	Food 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 students to complete two degrees at once while offering the best education in these complementary fields. This program opens the door to a multitude of career paths in the nutrition and food industries.

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

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

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

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

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

Required Courses (80 credits)

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

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

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits from the following:

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

At least 9 credits from the following:

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

12 credits from the following:

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

Elective Courses (12 credits)

Electives are selected in consultation with an academic adviser.

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

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

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

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

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

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

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

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

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

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

Required Courses (80 credits)

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

Honours Courses

Students choose either Plan A or Plan B.

Honours Plan A

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

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

Honours Plan B

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

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

Complementary Courses (30 credits)

Complementary courses are selected as follows:

At least 9 credits from the following:

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

At least 9 credits from the following:

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

12 credits from the following:

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

Elective Courses (12 credits)

Electives are selected in consultation with an academic adviser.

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

2.6.4.5.1 Certificate in Food Science

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

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

Please refer to [section 2.5.6: Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\) \(Overview\)](#) 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 B.Sc.(Nutr.Sc.) Major in Dietetics is a 3.5 year program that includes 40 weeks of internship Professional Practice (Stage) integrated in each year in a planned sequence to provide the academic and practical training for a career as a dietitian-nutritionist. The program includes innovative courses to promote food and nutrition expertise, leadership, communication skills, management skills and critical thinking. Graduates of the program are eligible to be registered as a professional dietitian in province(s) of Canada.

This program is accredited by the Partnership for Dietetic Education and Practice (PDEP) and it is recognized in Quebec by the Ordre des diététistes-nutritionnistes du Québec (ODNQ) and meets all the standards and requirements of this professional order.

Required Courses (112 credits)

Required courses and Professional Practice (Stage) courses are sequenced in a specific order over nine terms (3.5-year program). See <https://www.mcgill.ca/nutrition/programs/undergraduate/dietetics> for detailed information regarding the undergraduate program plan.

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
IPEA 500	(0)	Roles in Interprofessional Teams
IPEA 501	(0)	Communication in Interprofessional Teams
IPEA 502	(0)	Patient-Centred Care in Action
IPEA 503	(0)	Managing Interprofessional Conflict
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 208*	(2)	Professional Practice Stage 1A
NUTR 209*	(2)	Professional Practice Stage 1B
NUTR 214	(4)	Food Fundamentals
NUTR 217	(4)	Application: Food Fundamentals
NUTR 307	(3)	Metabolism and Human Nutrition
NUTR 310*	(2)	Professional Practice Stage 2A
NUTR 311*	(5)	Professional Practice Stage 2B
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 341	(3)	Global Food Security
NUTR 342	(3)	Applied Human Resources
NUTR 343	(3)	Financial Management and Accounting
NUTR 344	(4)	Clinical Nutrition 1
NUTR 345	(3)	Food Service Systems Management
NUTR 346	(3)	Applied Food Service Management
NUTR 408*	(1)	Professional Practice Stage 3A
NUTR 409*	(9)	Professional Practice Stage 3B
NUTR 438	(3)	Interviewing and Counselling
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 505	(3)	Public Health Nutrition
NUTR 508*	(7)	Professional Practice Stage 4A
NUTR 509*	(7)	Professional Practice Stage 4B
NUTR 511	(3)	Nutrition and Behaviour

NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3

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.

Elective choice may include, but is not limited to:

FRSL 219	(3)	Français intermédiaire 1 : diététique et nutrition
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 520	(3)	Indigenous Peoples' Nutrition

Compulsory Immunization

A compulsory immunization program exists at McGill which is required for Dietetics students. Students should complete their immunization upon commencing Year 1 of the Dietetics Major. Confirmation of immunization will be coordinated by the Student Wellness Hub (<https://www.mcgill.ca/wellness-hub/>). Certain deadlines apply.

*Advising Notes for Professional Practice (Stage):

The School firmly applies prerequisite requirements for registration in all required courses in the Dietetics Major. All required courses must be passed with a minimum grade of C. Undergraduate registration for all Professional Practice (Stage) courses is restricted to students in the Dietetics Major with a CGPA greater than or equal to 3.00. The CGPA requirement is firmly applied. Students in the Dietetics Major who have a CGPA below 3.0 for two consecutive years will not be permitted to continue in the program. Successful completion of each rotation of each level of Stage (Professional Practice) is required to pass that level of Stage. Each level is a prerequisite for the next level. If a student fails one level of Stage, certain conditions will apply to have the option to repeat the Stage and this may include an interview to assess suitability for the profession, and potential to successfully complete the program. Students are reminded that ethical conduct on Professional Practice (Stage) rotations is required. The Faculty reserves the right to require the withdrawal of any student if at any time the Faculty feels the student has displayed unprofessional conduct or demonstrates incompetence.

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/macdonald/studentinfo/advising>

Required Courses (63 credits)

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

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 300	(3)	Principles of Food Analysis 1
FDSC 305	(3)	Food Chemistry 2
FDSC 525	(3)	Food Quality Assurance
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 (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits from the following courses:

ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 560	(3)	Biology of Lactation
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 505	(3)	Public Health Nutrition
NUTR 507	(3)	Advanced Nutritional Biochemistry
NUTR 511	(3)	Nutrition and Behaviour
NUTR 537	(3)	Advanced Human Metabolism
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

6 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
FDSC 516	(3)	Flavour Chemistry
FDSC 520	(3)	Biophysical Chemistry of Food
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 540	(3)	Sensory Evaluation of Foods

NUTR 430 (3) Directed Studies: Dietetics and Nutrition 1

Elective Courses (15 credits)

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

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

This Major covers many aspects of human nutrition and food and their impact on health and society at the community and international level. It offers a core emphasis on the scientific fundamentals of nutrition and metabolism throughout the lifespan. The specialization in global nutrition emphasizes the importance of the interaction of nutrition, diet, water, environment, and infection. This degree does not lead to professional licensure as a Dietitian/Nutritionist. Graduates are qualified for careers in national and international governmental and non-governmental food and health agencies, in world development programs, in the food sector, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in public health, epidemiology, research, medicine, and dentistry or as specialists in nutrition.

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 (63 credits)

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

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
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 501	(3)	Nutrition in Developing Countries
NUTR 505	(3)	Public Health Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits selected from:

ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 560	(3)	Biology of Lactation

FDSC 537	(3)	Nutraceutical Chemistry
FDSC 545	(3)	Advances in Food Microbiology
NUTR 503	(3)	Nutrition and Exercise
NUTR 507	(3)	Advanced Nutritional Biochemistry
NUTR 511	(3)	Nutrition and Behaviour
NUTR 537	(3)	Advanced Human Metabolism
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

6 credits selected from:

AGEC 330	(3)	Agriculture and Food Markets
AGEC 442	(3)	Economics of International Agricultural Development
AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANSC 560	(3)	Biology of Lactation
ANTH 302	(3)	New Horizons in Medical Anthropology
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change
NUTR 341	(3)	Global Food Security
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 506	(3)	Qualitative Methods in Nutrition
NUTR 520	(3)	Indigenous Peoples' Nutrition
PARA 410	(3)	Environment and Infection
PARA 515	(3)	Water, Health and Sanitation
PPHS 501	(3)	Population Health and Epidemiology
PPHS 511	(3)	Fundamentals of Global Health
PPHS 529	(3)	Global Environmental Health and Burden of Disease

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

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

Required Courses (60 credits)

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

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
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
PARA 438	(3)	Immunology

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

Common Complementary Courses

At least 6 credits from the following:

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

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, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and 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.

2.6.5.5 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Metabolism, Health and Disease (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. This concentration emphasizes the influence of diet and nutrition on human health and the pathophysiology of inherited and acquired chronic disease. The links of nutrigenomics, nutrigenetics, and biotechnology with human health and regulation of metabolism are explored. This program does not lead to professional licensure as a dietitian/nutritionist.

Required Courses (63 credits)

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

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
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 507	(3)	Advanced Nutritional Biochemistry
NUTR 512	(3)	Herbs, Foods and Phytochemicals
NUTR 537	(3)	Advanced Human Metabolism

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits from the following:

ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 560	(3)	Biology of Lactation
FDSC 537	(3)	Nutraceutical Chemistry
FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 505	(3)	Public Health Nutrition
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

6 credits from the following courses:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 322	(3)	Neuroendocrinology
ANSC 312	(3)	Animal Health and Disease
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 560	(3)	Biology of Lactation
BIOL 300	(3)	Molecular Biology of the Gene
BTEC 306	(3)	Experiments in Biotechnology
MICR 341	(3)	Mechanisms of Pathogenicity
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
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, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and 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.

2.6.5.6 Bachelor of Science (Nutritional Sciences) (B.Sc.(Nutr.Sc.)) - Major Nutrition - Nutritional Biochemistry (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. This concentration in nutritional biochemistry links nutrigenomics, nutrigenetics, and biotechnology with human health, regulation of metabolism, and the pathophysiology of inherited and chronic disease. This degree does not lead to professional licensure as a dietitian/nutritionist. Graduates are qualified for careers in the biotechnology field, pharmaceutical and/or food industries, government laboratories, and the health science communications field. Graduates often continue on to graduate studies preparing for careers in research, medicine, and dentistry or as specialists in nutrition.

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

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

Required Courses (60 credits)

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

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
BTEC 306	(3)	Experiments in Biotechnology
FDSC 200	(3)	Introduction to Food Science
FDSC 251	(3)	Food Chemistry 1
FDSC 305	(3)	Food Chemistry 2
LSCI 204	(3)	Genetics
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health
NUTR 214	(4)	Food Fundamentals
NUTR 307	(3)	Metabolism and Human Nutrition
NUTR 322	(3)	Applied Sciences Communication
NUTR 337	(3)	Nutrition Through Life
NUTR 344	(4)	Clinical Nutrition 1
NUTR 401	(1)	Emerging Issues in Nutrition
NUTR 450	(3)	Research Methods: Human Nutrition
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Complementary Courses (15 credits)

15 credits of complementary courses are selected as follows:

Common Complementary Courses

At least 6 credits from the following:

ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
ANSC 560	(3)	Biology of Lactation

FDSC 537	(3)	Nutraceutical Chemistry
FDSC 545	(3)	Advances in Food Microbiology
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 503	(3)	Nutrition and Exercise
NUTR 511	(3)	Nutrition and Behaviour
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

At least 9 credits from the following courses:

ANAT 262	(3)	Introductory Molecular and Cell Biology
ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 420	(3)	Animal Biotechnology
ANSC 551	(3)	Carbohydrate and Lipid Metabolism
ANSC 552	(3)	Protein Metabolism and Nutrition
BINF 301	(3)	Introduction to Bioinformatics
BIOC 312	(3)	Biochemistry of Macromolecules
BIOL 300	(3)	Molecular Biology of the Gene
BTEC 535	(3)	Functional Genomics in Model Organisms
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
MICR 341	(3)	Mechanisms of Pathogenicity
MIMM 314*	(3)	Intermediate Immunology
MIMM 414	(3)	Advanced Immunology
NUTR 430	(3)	Directed Studies: Dietetics and Nutrition 1
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438*	(3)	Immunology

* Note: Students take either PARA 438 or MIMM 314

Elective Courses (15 credits)

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

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

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

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

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

Required Courses (63 credits)

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

AEMA 310	(3)	Statistical Methods 1
ANSC 234	(3)	Biochemistry 2
ANSC 323	(3)	Mammalian Physiology
ANSC 424	(3)	Metabolic Endocrinology
EDKP 395	(3)	Exercise Physiology
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 503	(3)	Nutrition and Exercise
NUTR 512	(3)	Herbs, Foods and Phytochemicals

Complementary Courses (12 credits)

12 credits of complementary courses are selected as follows:

Common Complementary Courses

6 credits from the following:

ANSC 433	(3)	Animal Nutrition and Metabolism
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 505	(3)	Public Health Nutrition
NUTR 507	(3)	Advanced Nutritional Biochemistry
NUTR 511	(3)	Nutrition and Behaviour
NUTR 537	(3)	Advanced Human Metabolism
NUTR 545	(4)	Clinical Nutrition 2
NUTR 546	(4)	Clinical Nutrition 3
NUTR 551	(3)	Analysis of Nutrition Data
PARA 438	(3)	Immunology

6 credits from:

ANAT 214	(3)	Systemic Human Anatomy
EDKP 261	(3)	Motor Development
EDKP 330	(3)	Physical Activity and Public Health
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 448	(3)	Exercise and Health Psychology
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology
EDKP 485	(3)	Cardiopulmonary Exercise Pathophysiology
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.

2.6.5.8 Bachelor of Science (Nutritional Sciences) – Related Programs

2.6.5.8.1 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.

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

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

2.6.6 Minor Programs

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

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

2.6.6.1 Minor in Environment (Bieler School of Environment)

For information about the Minor in Environment, consult [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.1: Minor in Environment](#).

2.6.6.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) - Minor Agribusiness Entrepreneurship (18 credits)

This Minor is a collaboration by the Faculty of Agricultural and Environmental Sciences and the Desautels Faculty of Management. It provides students with an understanding of how to conceptualize, develop, and manage successful ventures in the agricultural, ag-tech, bioresource engineering, environmental, and food sectors - including for-profit private companies and social enterprises - and how to champion intrapreneurship activities in larger organizations. The program covers the essentials of management and is interdisciplinary and integrative. Many courses include a diverse set of students from multiple McGill faculties.

Within this Minor, 18 credits must be unique (only count for the Minor and do not overlap with the Major or Specialization), except for students enrolled in programs with more than 72 credits of required and complementary courses, who can count up to 6 credits of courses in the Major or Specialization.

Students in this Minor are not permitted to take the Desautels Minors in Management, Marketing, Finance or Operations Management (for non-Management students).

Minimum requirements: U2 or above; minimum 3.0 CGPA. This Minor has limited enrolment. Students should contact the program director to apply.

Required Courses (12 credits)

INTG 201	(3)	Integrated Management Essentials 1
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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:

AGEC 231	(3)	Economic Systems of Agriculture
AGEC 332	(3)	Farm Management and Finance
AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 450	(3)	Agribusiness Management
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 493	(3)	International Project Management
FAES 300*	(3)	Internship 2
FAES 310	(3)	Agribusiness Entrepreneurship

* Note: To be counted towards the Minor in Agribusiness Entrepreneurship, the placement in FAES 300 must be approved by the program coordinator as having entrepreneurial focus.

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

The Minor in Agricultural Economics will complement a student's education in four ways. First, as a social science, Economics will provide an alternative perspective for students in the Faculty. Second, the Minor will provide an excellent foundation of the workings of the economy at large. Third, it will aid 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
AGEC 491	(3)	Research and Methodology
AGEC 492	(3)	Special Topics in Agricultural Economics 01

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

This Minor program is designed to allow students in non-agricultural production majors to receive credit for courses in agricultural production and to stimulate "cross-over" studies. The Minor can be associated with existing major programs in the Faculty, but in some instances it may require more than 90 credits to meet the requirements of both the Major and the Minor.

Students are advised to consult their major program adviser and the Academic Adviser of the Minor in their first year. At the time of registration for their penultimate year, students must declare their intent to obtain a Minor Agricultural Production. With the agreement of their major program adviser, they must submit their program of courses already taken, and to be taken in their final year, to the Academic Adviser of the Agricultural Production Minor. The Academic Adviser of the Agricultural Production Minor will then certify which courses the student will apply toward the Minor and that the student's program conforms with the requirements of the Minor.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study well before their final year.
2. Not all courses are offered every year. For information on available courses, consult Class Schedule at <http://www.mcgill.ca/minerva>. Complete listings can be found in the "Courses" section of this eCalendar.

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

General Regulations

To obtain a Minor in Agricultural Production, students must:

- a) ensure that their academic record at the University includes a C grade or higher in the courses as specified in the course requirements given below.
- b) offer a minimum total of 24 credits from the courses as given below, of which not more than 6 credits may be counted for both the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

Required Courses (12 credits)

AEBI 210	(3)	Organisms 1
ANSC 250	(3)	Principles of Animal Science
ENVB 210	(3)	The Biophysical Environment
PLNT 300	(3)	Cropping Systems

Complementary Courses (12 credits)

12 credits chosen from the following list in consultation with the Academic Adviser for the Minor:

AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 451	(3)	Dairy and Beef Production Management
ANSC 458	(3)	Swine and Poultry Production
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits

2.6.6.5 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Minor Animal Biology (24 credits)

The Minor 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 provide students with a sound background in the field of biomedical studies and the use of animal models. It should also qualify students to apply to most veterinary colleges in North America, to study in a variety of postgraduate biology programs, and to work in many laboratory settings.

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Biology.

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

Required Courses (15 credits)

ANSC 312	(3)	Animal Health and Disease
ANSC 323	(3)	Mammalian Physiology

ANSC 324	(3)	Developmental Biology and Reproduction
ANSC 420	(3)	Animal Biotechnology
PARA 438	(3)	Immunology

Complementary Courses (9 credits)

9 credits selected from:

ANSC 234	(3)	Biochemistry 2
ANSC 251	(3)	Comparative Anatomy
ANSC 326	(3)	Fundamentals of Population Genetics
ANSC 400	(3)	Eukaryotic Cells and Viruses
ANSC 424	(3)	Metabolic Endocrinology
ANSC 433	(3)	Animal Nutrition and Metabolism
ANSC 555	(3)	The Use and Welfare of Animals
ANSC 560	(3)	Biology of Lactation
ANSC 565	(3)	Applied Information Systems
LSCI 451	(3)	Research Project 1

2.6.6.6 Bachelor of Engineering (Bioresource) (B.Eng.(Bioresource)) - Minor Animal Health and Disease (24 credits)

The Minor in Animal Health and Disease is offered to students wishing to understand general animal physiology and function, the susceptibility of animals to various diseases, methods for limiting and controlling potential outbreaks, and the resulting implications for the animal, the consumer, and the environment. It is an ideal choice for students who are interested in the care of animals, or in working in laboratories where diseases are being researched. It would also be useful to students who wish to apply to most veterinary colleges in North America.

This Minor is not open to students in B.Sc.(Ag.Env.Sc.) programs. These students may register for the specialization in Animal Health and Disease.

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

Required Courses (18 credits)

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

Complementary Courses (6 credits)

6 credits selected from the following list:

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

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

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

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

To obtain a Minor in Applied Ecology, students must:

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

Required Courses (12 credits)

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

Complementary Courses (12 credits)

12 credits of complementary courses selected as follows:

AGRI 340	(3)	Principles of Ecological Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ENVB 301	(3)	Meteorology
ENVB 506	(3)	Quantitative Methods: Ecology
MICR 331	(3)	Microbial Ecology
MICR 450	(3)	Environmental Microbiology
PLNT 304	(3)	Biology of Fungi
PLNT 426	(3)	Plant Ecophysiology
PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
SOIL 326	(3)	Soils in a Changing Environment
WILD 302	(3)	Fish Ecology
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
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, but in some instances it may require more than 90 credits to meet the requirements of both the Major and the Minor.

Students are advised, during the U1 year, to consult their Major program adviser and the Academic Adviser of the Minor. At the time of registration for the U2 year, students must declare their intent to obtain the Minor. With the agreement of their Major program adviser they must submit their program of courses already taken, and to be taken, to the Academic Adviser of the Minor. The Academic Adviser of the Minor will then certify which courses the student will apply toward the Minor and confirm that the student's program conforms with its requirements.

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

General Regulations

To obtain a Minor in Ecological Agriculture, students must:

- Ensure that their academic record at the University includes a C grade or higher in the courses as specified in the course requirements given below.
- Offer a minimum total of 24 credits from the courses as given below, of which not more than 6 credits may be counted for both the Major and the Minor programs. This restriction does not apply to elective courses in the Major program.

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)	Soil Ecology

Complementary Courses (12 credits)

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
MICR 331	(3)	Microbial Ecology
NUTR 341	(3)	Global Food Security
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 312	(3)	Urban Horticulture
PLNT 434	(3)	Weed Biology and Control
PLNT 460	(3)	Plant Ecology
WOOD 441	(3)	Integrated Forest Management

2.6.6.9 Minor in Environmental Engineering

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

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

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

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

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

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

The Minor Human Nutrition is intended to complement a student's primary field of study by providing a focused introduction to the metabolic aspects of human nutrition. It is particularly accessible to students in Biochemistry, Biology, Physiology, Anatomy and Cell Biology, Microbiology and Immunology, Animal Science, or Food Science programs. The completion of 24 credits is required, of which at least 18 must not overlap with the primary program. All

courses must be taken in the appropriate sequence and passed with a minimum grade of C. Students may declare their intent to follow the Minor program at the beginning of their U2 year. They must then consult with the academic adviser in the School of Human Nutrition to obtain approval for their course selection. Since some courses may not be offered every year and many have prerequisites, students are cautioned to plan their program in advance.

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

Note:

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

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

Required Courses (6 credits)

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

Complementary Courses (18 credits)

18 credits are selected as follows:

3 credits in Biochemistry, one of:

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

3 credits in Physiology, one of:

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

3 credits in Nutrition, one of:

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

9 credits from:

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

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

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

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

Required Courses (6 credits)

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

Complementary Courses (18 credits)

Students select 18 credits from either Option A or Option B

Option A

18 credits from the following:

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

Option B

15 credits from any of the McGill Field Study Semesters:

African Field Study Semester

Barbados Field Study Semester

Barbados Interdisciplinary Tropical Studies Field Semester

Panama Field Study Semester

Plus 3 credits from the list in Option A

2.6.7 Post-Baccalaureate Certificate Programs

The Faculty offers the following 30-credit post-baccalaureate certificate programs.

2.6.7.1 Certificate (Cert.) Ecological Agriculture (30 credits)

This 30-credit certificate program is very similar to the Minor program and is designed to focus on the principles underlying the practice of ecological agriculture. The certificate may be of special interest to professional agrologists who want further training, as well as formal recognition that they have completed a coherent program of courses beyond their B.Sc. studies.

Students holding a B.Sc. in agriculture or a related area are eligible to register for this program provided that they are otherwise acceptable for admission to the University. Students who have completed the Minor or specialization in Ecological Agriculture are not permitted to register for this program.

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

General Regulations

To obtain a certificate in Ecological Agriculture, students must complete a minimum total of 30 credits from the courses as given below.

Notes:

1. Most courses listed at the 300 level and higher have prerequisites. Although instructors may waive prerequisite(s) in some cases, students are urged to prepare their program of study to ensure that they have met all conditions.
2. Students using AGRI 310 toward the requirements of the Specialization/Minor/Certificate are limited to an experience on farms or other enterprises that are organic, biodynamic, or practising permaculture. The placement must be approved by the academic adviser for the specialization/Minor/certificate.

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)	Soil Ecology

Complementary Courses (18 credits)

18 credits chosen from the following, in consultation with the Academic Adviser for Ecological Agriculture.

AGRI 310	(3)	Internship in Agriculture/Environment
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
AGRI 435	(3)	Soil and Water Quality Management
ANSC 312	(3)	Animal Health and Disease
ENTO 352	(3)	Biocontrol of Pest Insects
ENVB 305	(3)	Population and Community Ecology
ENVB 415	(3)	Ecosystem Management
MICR 331	(3)	Microbial Ecology
NUTR 341	(3)	Global Food Security
PARA 424	(3)	Fundamental Parasitology
PLNT 302	(3)	Forage Crops and Pastures
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)

This program is geared toward mature students, who have an undergraduate degree in a science-related discipline, to acquire the basic knowledge in the food science area to enter food-related industries or a food science graduate program. Students must complete a core course that introduces them to the basics of the field of food science and then choose complementary courses that allow a broad-based exposure in areas such as food chemistry/analysis, food microbiology/nutrition, quality assurance/safety, processing/engineering, communication skills, and ethics.

Required Course (3 credits)

FDSC 200	(3)	Introduction to Food Science
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Complementary Courses (27 credits)

27 credits (select no more than two 200-level courses)

AGRI 510	(3)	Professional Practice
BREE 324	(3)	Elements of Food Engineering
BREE 535	(3)	Food Safety Engineering
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 400	(3)	Food Packaging
FDSC 405	(3)	Food Product Development
FDSC 442	(3)	Food Microbiology
FDSC 495D1	(1.5)	Food Science Seminar
FDSC 495D2	(1.5)	Food Science Seminar
FDSC 515	(3)	Enzymology
FDSC 516	(3)	Flavour Chemistry
FDSC 519	(3)	Advanced Food Processing
FDSC 520	(3)	Biophysical Chemistry of Food
FDSC 525	(3)	Food Quality Assurance
FDSC 536	(3)	Food Traceability
FDSC 537	(3)	Nutraceutical Chemistry
LSCI 211	(3)	Biochemistry 1
LSCI 230	(3)	Introductory Microbiology
NUTR 207	(3)	Nutrition and Health

2.6.8 Field Studies**2.6.8.1 Africa Field Study Semester**

The Africa Field Studies Semester (AFSS) offers students an opportunity to study in East Africa for a semester starting every January. Courses are offered in both natural science and social science, and are taught in environments ranging from desert to tropical rainforest, from manyatta to urban centers. For more information, please visit the [AFSS web site](#).

2.6.8.2 Barbados Field Study Semester

This program takes place at Bellairs Research Institute in Barbados; it is a full 15-credit program offered each Fall semester. For more information, see [Study Abroad & Field Studies](#) > *Undergraduate* > [section 12.2.1.3: Barbados Field Semester](#).

2.6.8.3 Barbados Interdisciplinary Tropical Studies Field Semester

This 15-credit program is offered in collaboration with several partners in Barbados, including the University of the West Indies (UWI) during the summer. McGill students live at the Bellairs Research Institute, while BITS courses are conducted both at UWI and Bellairs. For more information, see [Study Abroad & Field Studies](#) > Undergraduate > [section 12.2.1.4: Barbados Interdisciplinary Tropical Studies Field Semester](#).

2.6.8.4 Panama Field Study Semester

The Panama Field Study Semester is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) in Panama. It is a 15-credit program offered in the Winter term (January to April).

The program presents a hands-on experience gained through an internship/research project organised around multidisciplinary environmental issues. The nature of the semester will center on practical environmental problems/questions important for Panama.

2.7 Academic Units

The following are academic units (departments, institutes, schools, etc.) within the Faculty of Agricultural & Environmental Sciences.

- [section 2.7.1: Department of Animal Science](#)
- [section 2.7.2: Department of Bioresource Engineering](#)
- [section 2.7.3: Farm Management and Technology Program](#)
- [section 2.7.4: Department of Food Science and Agricultural Chemistry](#)
- [section 2.7.5: School of Human Nutrition](#)
- [section 2.7.6: Department of Natural Resource Sciences](#)
- [section 2.7.7: Institute of Parasitology](#)
- [section 2.7.8: Department of Plant Science](#)

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

2.7.1 Department of Animal Science

2.7.1.1 Location

Macdonald Stewart Building, Room MS1-084
Telephone: 514-398-7890
Fax: 514-398-7990
Email: animal.science@mcgill.ca
Website: mcgill.ca/animal

2.7.1.2 About the Department of Animal Science

The Department of Animal Science has a number of programs for students who wish to study animal science at the undergraduate level. Whether they 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 their interests.

The Department of Animal Science plays a crucial role in offering 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, and will depend on the student's orientation towards animal production management, animal biotechnology, further studies in animal health, international studies, and/or graduate studies.

Any student with an interest in animals who wishes to become a professional agrologist (a member of the *Ordre des agronomes du Québec*), should register in the Agro-Environmental Sciences Major and take the specialization in Animal Production, as well as the obligatory specialization in Professional Agrology.

2.7.1.3 Animal Science Faculty**Chair**

Raj Duggavathi

Emeritus Professors

Roger B. Buckland; Eduardo R. Chavez; Eugene Donefer; John F. Hayes; Urs Kühnlein; Sherman Touchburn.

Professors

Xin Zhao

Associate Professors

Vilceu Bordignon; Sergio Burgos; Roger I. Cue; Raj Duggavathi; Sarah Kimmins; Arif F. Mustafa; Elsa Vasseur; Kevin M. Wade; Jianguo (Jeff) Xia.

Assistant Professors

Jennifer Ronholm; Alexander Bekele-Yitbarek.

Adjunct Professors

Baurhoo Bushansingh; Pierre Lacasse; Bruce Murphy; Débora Santschi.

Affiliate Member

René Lacroix

2.7.2 Department of Bioresource Engineering**2.7.2.1 Location**

Macdonald Stewart Building, Room MS1-028
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Canada
 Telephone: 514-398-7773
 Website: mcgill.ca/bioeng

2.7.2.2 About the Department of Bioresource Engineering

Bioresource Engineering is an accredited engineering program administered by the Faculty of Agricultural and Environmental Sciences. The Bioresource Engineering discipline focuses on the application of engineering principles to biological systems including plants, animals, and ecosystems. Bioresource engineers seek sustainable solutions to enhance the production and processing of food and other biomaterials as well as to preserve and regenerate the quality of soil, water, and other natural resources.

In addition to core engineering sciences and design skills, Bioresource Engineering students take courses dedicated to the infrastructure and processes essential to the emerging circular bioeconomy. Students learn to design, construct, operate, maintain, and innovate equipment, structures, processes, and software related to agriculture, forestry, food, environmental protection, ecological management, bioenergy, and other related industries.

For more information on programs associated with this department, see [section 2.6.3: B.Eng Bioresource](#).

2.7.2.3 Bioresource Engineering Faculty**Chair**

Viacheslav I. Adamchuk

Graduate Program Director

G.S. Vijaya Raghavan

Associate Graduate Program Director

Mark Lefsrud

Emeritus Professors

Robert S. Broughton; Robert Kok.

Professors

Viacheslav I. Adamchuk; Jan Adamowski; Chandra A. Madramootoo; Michael O. Ngadi; Valérie Orsat; Shiv O. Prasher; G.S. Vijaya Raghavan.

Associate Professors

Abdolhamid Akbarzadeh Shafaroudi; Grant Clark; Marie-Josée Dumont; Mark Lefsrud; Zhiming Qi.

Assistant Professor

Benjamin Goldstein; Shangpeng Sun.

Adjunct Professors

Luis Del Rio; Boris Tartakovsky.

Faculty Lecturers

Fernando Altamura; Alice Cherestes; David Titley-Peloquin.

Research/Academic Associates

Yvan Garipey; Li (Laura) Liu; Sarah MacPherson; Darwin Lyew.

Technical

Scott Manktelow

2.7.3 Farm Management and Technology Program

2.7.3.1 Location

Farm Management and Technology Program
 Faculty of Agricultural and Environmental Sciences
 Macdonald Campus of McGill University
 21,111 Lakeshore Road, Harrison House
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Telephone: 514-398-7814
 Fax: 514-398-7955
 Email: fmt.macdonald@mcgill.ca
 Website: mcgill.ca/fmt

2.7.3.2 About the Farm Management and Technology Program

The Farm Management and Technology (FMT) program is a 3-year academic and practical college program, offered on the Macdonald Campus and taught by the staff of the Faculty of Agricultural and Environmental Sciences of McGill University. For further information on the program, please refer to our [website](#).

2.7.3.3 Diploma of College Studies — Farm Management Technology

This three-year academic and practical program is offered on the Macdonald campus and taught by the staff of the Faculty of Agricultural and Environmental Sciences of McGill University. The program is funded by the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec and authorized by the Ministère de l'Éducation, Enseignement supérieur, et Recherche (MEESR).

The educational goals of the program are:

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

FMT4 001	(1.33)	Fall Stage (152-VSA-MC)
FMT4 002	(1.67)	Soil Tillage (152-VSB-MC)
FMT4 003	(1.33)	Information Management (152-VSC-MC)
FMT4 004	(1.33)	Animal Physiology and Anatomy (152-VSD-MC)
FMT4 005	(2.33)	Introduction to Plant Science (152-VSE-MC)
FMT4 006	(1.33)	Pesticides and the Environment (152-VSF-MC)
FMT4 080	(2)	English Upgrading
FMT4 090	(1)	Physical Activity and Health (109-101-MQ)

Winter 1

FMT4 007	(2)	Health and Safety (152-VSG-MC)
FMT4 008	(2.33)	Animal Genetics and Nutrition (152-VSH-MC)
FMT4 009	(2)	Soil Fertility (152-VSJ-MC)
FMT4 010	(1.33)	Winter Stage (152-VSK-MC)
FMT4 011	(2)	Farm Accounting (152-VSL-MC)
FMT4 012	(1.67)	Machinery Maintenance (152-VSM-MC)
FMT4 077	(2.67)	Introduction to College English

Summer 1

FMT4 013	(2)	Agricultural Internship (152-VSN-MC)
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Fall 2

Two courses selected from the Elective Production course list below.

FMT4 014	(2)	Marketing Strategies (152-VSP-MC)
FMT4 015	(1.33)	Forest Management (152-VSQ-MC)
FMT4 005	(1.33)	Animal Anatomy and Physiology
FMT4 008	(2.33)	Introduction to Animal Science (152-008-MC)
FMT4 075	(2)	Langue française et communication (602-101-03)
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)
FMT4 092	(1)	Physical Activity and Autonomy (109-103-MQ)

Elective Production Courses

We offer four production courses in the area of Animal Science and four production courses in the area of Plant Science. Students must take a minimum of two courses in each category for a total of four courses. Students could elect to take more than four courses if they wish, after a discussion with their academic adviser. They must take a minimum of two courses per semester.

Animal Science Category

FMT4 028	(2.67)	Dairy Replacement Management (152-VTE-MC)
FMT4 029	(2.67)	Dairy Performance Management (152-VTF-MC)
FMT4 030	(2.67)	Swine and Poultry Management (152-VTG-MC)
FMT4 031	(2.67)	Beef and Sheep Management (152-VTH-MC)

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.

FMTF 074	(2)	Complementary Course 2
FMTF 097	(2)	Landscape Design (504-VSG-MC)

Comprehensive Assessment

The objective of this examination is to ensure that students have attained the objectives and standards for each competency in the program. Successful completion of the Comprehensive Assessment is mandatory to obtain the DEC.

The passing grade is 60%. The mark indicating that the student has successfully completed the Comprehensive Assessment will appear on the student's transcript.

English Exit Examination

All students who wish to graduate and obtain the DEC must pass the English Exit Examination that is prepared and corrected by the MEESR. Students must take this examination on the dates selected by the MEESR.

2.7.3.4 Farm Management and Technology Program Faculty**Director**

Pascal Thériault

Associate Director

David Wees

Faculty Lecturers

Caroline Begg; Peter Enright; Mathieu Leduc; Pascal Thériault.

2.7.3.5 Academic Rules and Information – FMT

The Farm Management and Technology program follows the rules and regulations of McGill University as well as from the *Ministère de l'Éducation et de l'Enseignement supérieur* (MEES) for the collegial level.

2.7.3.5.1 Entrance Requirements – FMT

- Students should have a good practical knowledge of farming under eastern Canadian conditions. One year of experience is recommended, but under special conditions a four-month summer season is acceptable.
- The **minimum academic entrance requirements** are a Quebec Secondary School Diploma (SSD) or its equivalent and the successful completion of the following five courses:
 - Secondary IV: History and Citizenship Education or History of Quebec and Canada
 - Secondary IV: Science and Technology or Applied Science and Technology or Physical Science
 - Secondary IV: Mathematics
 - Secondary V: Language of Instruction
 - Secondary V: Second Language
- The minimum entrance requirements for **students from Ontario** are the Ontario Secondary School Diploma (OSSD), as well as:
 - grade 10 French as a second language
 - science: SNC2P (recommended with TCJ20 or TDJ20 or TMJ20) or SNC2D (desired with TCJ20 or TDJ20 or TMJ20)
 - mathematics: MFM2P or MPM2D

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

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

- All candidates for admission must make arrangements to come to the Macdonald campus for an interview prior to admission to the program.
- 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 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

Attendance in class is compulsory. Students with attendance of less than 80% may not be permitted to write examinations.

Examinations and other work in courses will be graded according to the percentage system. The minimum passing grade in a course is 60%.

When a student's cumulative percent average (CPA) or semestrial percent average (SPA) first drops below 60%, or they fail four or more courses in a semester, withdrawal is advised. Students who choose to remain in the program are on probation.

Students on probation are normally permitted to register for no more than 10 credits per semester. They are not permitted to be on probation for more than one semester unless they obtain an SPA of 70% or higher.

Students who do not raise their CPA to 60% (or obtain an SPA of 70%) while on probation are not permitted to continue. They are required to withdraw from the program for one year. If, after this period, students wish to be readmitted, they must apply in writing to the Director of the program.

2.7.3.5.5 Student Rights and Responsibilities

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

2.7.3.5.6 Institutional Policy on the Evaluation of Student Achievement – FMT

The policy has the following objectives:

- to establish and explain the principles followed in evaluating student learning;
- to describe the means of translating these principles into practice and to establish the required procedures;
- to articulate the appropriate responsibilities of students, instructors, departments, and academic administrators;
- to account to students, parents, universities, and employers for the standards of learning at the campus;
- to create an environment of awareness and free discussion of pedagogical concerns within all segments of the campus community;
- to provide information that will allow students to more fully understand and participate in the educational process;
- to provide the framework within which instructors and academic administrators can exercise their professional judgment in a competent, just, and coherent fashion.

Copies are available in the Library and students are informed of it at registration.

2.7.3.6 Fees and Expenses – FMT

2.7.3.6.1 Fees

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

* All fees are subject to change without notice.

2.7.3.6.2 Textbooks and Supplies

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

2.7.3.6.3 Financial Assistance

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

2.7.3.7 Residence Accommodation – FMT

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

2.7.4 Department of Food Science and Agricultural Chemistry

2.7.4.1 Location

Macdonald-Stewart Building, Room MS1-034
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Canada
 Telephone: 514-398-7773
 Fax: 514-398-7990
 Email: info.macdonald@mcgill.ca
 Website: mcgill.ca/foodscience

2.7.4.2 About the Department of Food Science

Food Science is a multidisciplinary field involving chemistry, biochemistry, nutrition, microbiology, and processing that gives students the scientific knowledge to solve real problems associated with the many facets of the food system. Food Science is still a relatively new and growing discipline, brought about mainly as a response to the social changes taking place in North America and other parts of the developed world. The current trend toward merger between **food** and **pharmaceutical industries** to produce the next generation of new food products, such as functional foods and nutraceuticals, is the biggest challenge facing the discipline of Food Science today. You can be part of it.

The programs offered are:

- B.Sc. Food Science (Food Chemistry or Food Science option)
- Concurrent degree, which includes B.Sc. Food Science/B.Sc. Nutritional Sciences
- Post-Baccalaureate Certificate in Food Science

For more information on these programs, see *section 2.6.4: Bachelor of Science (Food Science) - B.Sc.(F.Sc.)*.

2.7.4.3 Food Science and Agricultural Chemistry Faculty

Chair

Varoujan A. Yaylayan

Graduate Program Director

Ashraf Ismail

Emeritus Professors

Inteaz Alli; Frederik R. van de Voort.

Professors

Hosahalli S. Ramaswamy; Benjamin K. Simpson; Varoujan A. Yaylayan.

Associate Professors

Stephane Bayen; Saji George; Ashraf A. Ismail; Salwa Karboune; Xiaonan Lu.

Assistant Professor

Jennifer Ronholm; Yixiang Wang.

Adjunct Professors

Luis Garcia; Lawrence Goodridge; Jocelyn Pare; Ali Taherian.

Research/Academic Associates

Jacqueline Sedman.

2.7.5 School of Human Nutrition**2.7.5.1 Location**

Macdonald Stewart Building
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Canada
 Telephone: 514-398-7773
 Fax: 514-398-7739
 Email: nutrition.dietetics@mcgill.ca
 Website: mcgill.ca/nutrition

2.7.5.2 About the School of Human Nutrition

The health and well-being of individuals and populations in relation to food choices and metabolism prevails as the unifying theme of the programs in the School of Human Nutrition, a part of the McGill University Health Sciences.

The School offers a **B.Sc.(Nutr.Sc.)** in either the Dietetics Major or the Nutrition Major.

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

The **Nutrition Major** is a 90-credit undergraduate degree. At its core, it deals with how diet, nutrition, and metabolism affect human health and disease risk. It offers you exciting opportunities to specialize in one of *five concentrations* (Food Function and Safety; Global Nutrition; Health and Disease; Nutritional Biochemistry; and Sports Nutrition), to incorporate research experience, travel for field studies, or a Minor in your program. It does not lead to professional 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: Bachelor of Science \(Nutritional Sciences\) – B.Sc.\(Nutr.Sc.\)](#).

2.7.5.3 Degrees Offered by the School of Human Nutrition**Bachelor of Science in Nutritional Sciences – B.Sc.(Nutr.Sc.)**

Two undergraduate degree programs are offered by the School.

- The **Dietetics** Major leads to professional qualification
- The **Nutrition** Major offers five concentrations:
 - Food Function and Safety
 - Global Nutrition
 - Health and Disease
 - Nutritional Biochemistry
 - Sports Nutrition

M.Sc.A., M.Sc., and Ph.D.

Graduate degrees in Human Nutrition are also offered in thesis and non-thesis-based research at the master's level and thesis-based research at the doctoral level. Three options are available in the M.Sc. Applied degree:

- Dietetics Credentialing
- Practicum
- Project

For further information, contact the School or refer to the Agricultural & Environmental Sciences' [Graduate and Postdoctoral Studies](#) section.

2.7.5.4 Human Nutrition Faculty

Director

Linda J. Wykes

Professors Emeriti

Harriet V. Kühnlein; Timothy A. Johns.

Professors

Luis B. Agellon; Niladri Basu; Linda J. Wykes.

Associate Professors

Stéphanie Chevalier; Treena Delormier; Kristine G. Koski; Stan Kubow; Ryan Mailloux; Grace S. Marquis; Hugo Melgar-Quiñonez.

Assistant Professors

Anne-Sophie Brazeau; Chelsia Gillis; Daiva Nielsen; Brittany Wenniser; iostha Jock.

Academic Associate

Patrick Cortbaoui

Senior Faculty Lecturers

Mary Hendrickson; Sandy Phillips; Hugues Plourde; Maureen Rose.

Faculty Lecturers

Paul-Guy Duhamel; Joane Routhier.

Associate Members

Anaesthesia: Franco Carli, Thomas Schricker

Institute for the Study of International Development (ISID): Nii Addy

Medicine and Health Sciences: L. John Hoffer, Larry Lands, José Morais

Nursing: Rosetta Antonacci

Parasitology: Marilyn E. Scott

Adjunct Professors

Kevin A. Cockell; Isabelle Germain; Elizabeth D. Mansfield.

Affiliate Members

Kathryn Arcudi; Marie-Ève Besner; Sarah Blunden; Catherine Delorme; Thea Demmers; Linda Falcon; Loudigina Khoury; Isabelle Lam; Alexander McLean; Laura Li Ching Ng; Piraveena Piremathasan; Marilyn Rabin; Donna Schafer; Patricia Urrico.

2.7.5.5 Application Procedures

Entry into the Dietetics major, the Nutrition major and the Freshman Program of the BSc.(Nutr.Sc.) is only possible in September.

Application deadlines:

- Applicants studying outside of Canada: **January 15**
- Applicants from Canadian high schools outside of Quebec: **February 1**

- CEGEP applicants: **March 1**
- Transfer/Second degree applicants from Canadian universities: **May 1**
- Mature students: **May 1**

Applications to the School of Human Nutrition must be submitted online. Online applications and admissions information are available at mcgill.ca/applying.

2.7.5.6 Admission Requirements

Nutrition:

- Students applying directly from high school will apply into the BSc.(Nutr.Sc.) Freshman program. Upon successful completion of this program, students will automatically progress into the Nutrition program.
- Students applying with Advanced Levels, Advanced Subsidiary, Cambridge Pre-U Examinations, CAPE, a CEGEP DEC, one year or more of university, or as a Mature student will apply into the Nutrition program.

Dietetics:

- Students wishing to enter the Dietetics major who are applying from a high school either in Canada or abroad must apply into the BSc.(Nutr.Sc.) Freshman program and apply to transfer after their first year. Transfer to year 1 of the Dietetics program is based on CGPA. Proof of French proficiency will also be required
- Students with a French Baccalaureate or an International Baccalaureate who want to enter Dietetics must apply into the Nutrition program and apply to transfer after their first year.

Students from the following programs can apply directly into the Dietetics program:

- students with a CEGEP DEC
- students with a minimum of one year of university studies
- Mature students with **all** of the math and science prerequisites

Proof of English proficiency:

Some applicants to the School's programs may be asked to prove [English Proficiency](#) as part of the application process.

See the [Applying to Undergraduate Studies](#) website for information on applying to programs in the School of Human Nutrition.

Proof of French proficiency:

Applicants will be required to prove [proficiency in French](#).

2.7.5.6.1 Quebec CEGEP Students

CEGEP applicants must have obtained, prior to the start of classes, a Diplôme d'études collégiales (DEC).

Prerequisites:

- Math NYA (00UN or 01Y1) **and** NYB (00UP or 01Y2)
- Biology NYA (00UK or 01Y5) **and** Biology II (00XU or 01YJ)
- Chemistry NYA (00UL or 01Y6) **and** Organic Chemistry (00XV or 01YH)
- Physics NYA (00UR or 01Y7) **and** NYB (00US or 01YF) **and** NYC (00UT 01YG)

Dietetics:

Applicants to this program are advised to have all prerequisite courses completed prior to entry. It may be possible to be admitted missing some of the prerequisites however this is a highly competitive program and students with all of the prerequisites will be given priority.* If you are admitted missing some prerequisites, you will be required to complete them in addition to your BSc.(Nutr.Sc.) program requirements. **** Please note that this will extend the length of your program by one year as without all prerequisite courses completed you will be unable to register for your first stage.** If at all possible, students should try to complete any missing prerequisite courses in the summer before starting at McGill.

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

Nutrition:

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

- Math NYA (00UK or 01Y5)

and two of the following:

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

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

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

2.7.5.6.2 Transfer Students

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

Basic science requirements are:

- one semester in each of differential and integral calculus
- two semesters of biology with labs (biology I and cell biology)
- one semester of general chemistry with lab
- one semester of organic chemistry with lab
- two semesters of physics (including mechanics, electricity, and magnetism, and waves and optics), with labs

Please note that math and science courses completed at other institutions that are not directly equivalent to the math and science courses in the B.Sc.(Nutr.Sc.) programs, can be used for admissions purposes, but cannot be used to grant exemptions. **If any of the math and science prerequisite courses completed are deemed not equivalent, they will have to be repeated at McGill.** Course equivalencies can be viewed on McGill's [course equivalency system](#).

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

Dietetics:

Applicants to the Dietetics program are recommended to have all prerequisite math and science courses completed prior to entry. It may be possible to be admitted missing some of the prerequisites; however, this is a highly competitive program and students with all the prerequisites completed will be given priority. If students are admitted missing prerequisites, they will be required to complete them in addition to their B.Sc.(Nutr.Sc.) program requirements.

If prerequisites need to be added to a student's program, this will extend the length of the program by one year, as all prerequisites must be completed to be eligible to register for the first stage.

Nutrition:

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

- one semester of calculus for science

and two of the following:

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

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

2.7.5.6.3 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. The Dietetics program is not open for students wishing to transfer in January. The Nutrition program sometimes allows students to transfer in January.

The programs that are open in January can be found on the [January admission website](#).

For details on applying for a transfer please see the Faculty's [readmission and transfer](#) page.

For more information on Interfaculty transfers, please refer to [University Regulations and Resources](#) > [Undergraduate](#) > [Registration](#) > [section 1.3.6: Interfaculty Transfer](#).

Dietetics applicants only: Please note that applicants must also prove [proficiency in French](#).

2.7.5.6.4 Mature Students

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

Dietetics:

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

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

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

Nutrition:

Students may be accepted with a minimum of three prerequisites:

- one semester of calculus for science

and two of the following:

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

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

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

2.7.5.7 Academic Information and Regulations

2.7.5.7.1 Academic Standing

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

Dietetics students please note:

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

2.7.6 Department of Natural Resource Sciences

2.7.6.1 Location

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

2.7.6.2 About the Department of Natural Resource Sciences

As humans depend on a wide variety of ecosystem services, society is becoming increasingly aware of the need for sustainable management of natural resources. We require the natural world to provide us with necessities such as air, water, food, and energy, but also depend on ecosystems for services such as nutrient cycling, biodiversity, 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;
- Life Sciences (Biological and Agricultural);
- Environment (Bieler School of Environment);
- Agro-Environmental Sciences; and
- Agricultural Economics;

to the **Specialisations** such as:

- Applied Ecology;
- Wildlife Biology;
- Microbiology and Molecular Biotechnology;
- Agribusiness;
- Environmental Economics; and
- Life Sciences (Multidisciplinary)

2.7.6.3 Natural Resource Sciences Faculty

Chair

Brian Driscoll

Graduate Program Director

Sébastien Faucher

Program Director - Agricultural Economics

Paul J. Thomassin

Emeritus Professors

David M. Bird; James W. Fyles; Edmund S. Idziak; Peter H. Schuepp; Robin K. Stewart.

Professors

Niladri Basu; Elena Bennett; Peter Brown; Christopher Buddle; Gordon Hickey; Murray Humphries; Paul J. Thomassin; Joann Whalen; Lyle G. Whyte.

Associate Professors

Jeffrey Cardille; Benoît Côté; Brian T. Driscoll; Gary B. Dunphy; Kyle Elliott; Sebastien Faucher; Jessica Head; Nicolas Kosoy; Ian B. Strachan.

Assistant Professors

Mary Doidge; Aurélie Harou; Jessica Gillung; Cynthia Kallenbach; Melissa McKinney; Denis Roy.

Associate Members

Christopher Barrington-Leigh; David M. Green; Jacqueline Bede; Robin Thomas Naylor.

Adjunct Professors

Kimberly Fernie; Charles W. Greer; Magali Houde.

Affiliate Members

Adrian Unc; Geoffrey Sunahara.

2.7.7 Institute of Parasitology

2.7.7.1 Location

Institute of Parasitology
 Parasitology Building
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Canada
 Telephone: 514-398-7722
 Fax: 514-398-7857
 Email: graduate.parasitology@mcgill.ca
 Website: 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

Reza Salavati

Emeritus Professor

Timothy G. Geary

Professors

Roger Prichard; Reza Salavati; Marilyn Scott.

Associate Professors

Robin N. Beech; Elias Georges; Petra Rohrbach; Jianguo (Jeff) Xia.

Assistant Professors

Igor Cestari; Qian (Vivian) Liu; Thavy Long; Fernando Lopes.

Associate Members

Gregory J. Matlashewski; Momar Ndao; Martin Olivier; Mary Stevenson.

Adjunct Professors

Traian Sulea; Karine Thivierge.

2.7.8 Department of Plant Science

2.7.8.1 Location

Raymond Building, Room R2-019
 McGill University, Macdonald Campus
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Canada
 Telephone: 514-398-7773
 Fax: 514-398-8732
 Email: plant.science@mcgill.ca
 Website: mcgill.ca/plant

2.7.8.2 About the Department of Plant Science

Our understanding of biological systems has advanced exponentially during the twenty-first century, and technological developments now allow us to pose questions that simply could not be asked a few decades ago. We also live in a time of great challenges: the human population is now over 7 billion and continues to rise at an alarming rate; the climate is changing; worldwide energy availability is decreasing; quality freshwater is becoming scarce; biodiversity is disappearing; and a number of wild habitats are threatened by human activities.

How can we keep feeding the growing population with quality food while resources are scarcer than ever? How will plants react to a changing climate? How can we design effective conservation strategies to preserve biodiversity? Plant scientists have a crucial role to play in solving these problems, and using the knowledge accumulated in the field of biology to answer these questions.

The Department of Plant Science contributes to several undergraduate programs that will train tomorrow's agrologists, ecologists, botanists, and biotechnologists. These include **Specializations** in Ecological Agriculture, Plant Biology, Plant Production, as well as both the Environmetrics and the Food Production and Environment domains of the Bieler School of Environment. For related program information, see [section 2.6.2: Bachelor of Science \(Agricultural and Environmental Sciences\) – B.Sc.\(Ag.Env.Sc.\)](#).

2.7.8.3 Plant Science Faculty**Chair**

Martina V. Stromvik

Associate Chair and Graduate Program Director

Jean-Benoit Charron

Associate Graduate Program Director

Valérie Gravel

Emeriti Professors

Deborah J. Buszard; Alan K. Watson.

Professors

Pierre Dutilleul; Anja Geitmann; Suha Jabaji; Ajjamada C. Kushalappa; Philippe Seguin; Donald L. Smith.

Associate Professors

Jacqueline C. Bede; Sylvie de Blois; Jean-Benoit Charron; Valérie Gravel; Jaswinder Singh; Martina V. Stromvik.

Assistant Professors

Mehran Dastmalchi; Valerio Hoyos-Villegas.

Faculty Lecturers

Caroline Begg; David Wees

Academic Associate

Frieda Beauregard

Adjunct Professors

Konstantinos Aliferis; Annick Bertrand; Antoine Page.

2.8 Instructional Staff**Instructional Staff**

Adamchuk, Viacheslav I.; Adamowski, Jan; Agellon, Luis B.; Akbarzadeh Shafaroudi, Abdolhamid; Altamura, Fernando; Basu, Niladri; Bayen, Stephane; Bede, Jacqueline; Beech, Robin N.; Begg, Caroline; Bekele-Yitbarek, Alexander; Bennett, Elena; Bordignon, Vilceu; Brazeau, Anne-Sophie; Brown, Peter G.; Buddle, Christopher; Burgos, Sergio; Cardille, Jeffrey A.; Cestari, Igor; Charron, Jean-Benoit; Cherestes, Alice; Chevalier, Stephanie; Clark, Grant; Côté, Benoît; Cue, Roger I.; Dastmalchi, Mehran; Delormier, Treena; de Blois, Sylvie; Doidge, Mary; Driscoll, Brian T.; Duggavathi, Raj; Duhamel, Paul-Guy; Dumont, Marie-Josée; Dunphy, Gary B.; Dutilleul, Pierre R.; Elliott, Kyle H.; Enright, Peter; Fabry, Frederic; Faucher, Sébastien P.; Freeman, Julia; Geitmann, Anja; George, Saji; Georges, Elias; Gillung, Jessica; Goldstein, Benjamin; Gravel, Valérie; Harou, Aurélie; Head, Jessica; Hendrickson-Nelson, Mary; Hickey, Gordon M.; Hoyos-Villegas, Valerio; Humphries, Murray; Ismail, Ashraf A.; Jabaji, Suha; Jardim, Armando; Jock, Brittany; Kallenbach, Cynthia; Karboune, Salwa; Kimmins, Sarah; Koski, Kristine G.; Kosoy, Nicolas; Kubow, Stan; Kushalappa, Ajjamada C.; Leduc, Mathieu; Lefsrud, Mark G.; Liu, Qian (Vivian); Long, Thavy; Lopes, Fernando; Lu, Xianoan; Madramootoo, Chandra; Mailloux, Ryan; Major, Julie; Marquis, Grace S.; McKinney, Melissa; Melgar-Quiñonez, Hugo Ramiro; Mustafa, Arif F.; Ngadi, Michael O.; Nielsen, Daiva; Orsat, Valérie; Phillips, Sandy; Plourde, Hugues; Prasher, Shiv O.; Prichard, Roger K.; Qi, Zhiming; Raghavan, G.S. Vijaya; Ramaswamy, Hosahalli; Rohrbach, Petra; Ronholm, Jennifer; Rose, Maureen; Routhier, Joane; Roy, Denis; Salavati, Reza; Scott, Marilyn E.; Seguin, Philippe; Simpson, Benjamin K.; Singh, Jaswinder; Smith, Donald L.; Strachan, Ian; Stromvik, Martina V.; Sun, Shangpeng; Thériault, Pascal; Thomassin, Paul; Titley-Péloquin, David; Vasseur, Elsa; Wade, Kevin; Wang, Yixiang; Wees, David D.; Whalen, Joann; Whyte, Lyle G.; Wykes, Linda; Xia, Jeff; Yaylayan, Varoujan A.; Zhao, Xin.

3 Faculty of Arts

3.1 About the Faculty of Arts

The McGill campus is an oasis in the heart of the business, cultural, and entertainment centres of downtown Montreal. At the centre of the Downtown campus is the McCall MacBain Arts Building, the oldest building on campus and the University's flagship. It houses classrooms, administrative offices, and Moyses Hall, an elegant and superbly equipped theatre. For years, the front steps of the McCall MacBain Arts Building have been a favourite spot to meet and to take a respite from the rigours of coursework. In addition to the Arts Building, the Faculty of Arts is housed in 22 other buildings across campus, including historic houses and former apartment buildings across campus.

The Faculty of Arts, the faculty that lies both literally and figuratively at the heart of the University, has enjoyed steady growth since it was established in 1843 and remains by far the largest faculty at McGill. The Faculty is home to 15 departments, 22 interdisciplinary programs, the School of Religious Studies, three professional schools (the School of Information Studies, the School of Social Work, and the Max Bell School of Public Policy), four institutes and 12 centres. It has over 300 tenured or tenure-track scholars, over 8,100 undergraduates, and over 1,200 graduate students, and offers several hundred courses. Despite the numbers, the majority of classes in Arts are smaller than those offered by any other large research university in Canada. The humanities and social science disciplines that constitute the Faculty share a common endeavour: to understand the human condition in order to improve it.

The Faculty maintains bilateral exchange programs with many universities around the world and encourages students to spend a term or two studying abroad, either through an exchange program or independently. Internships have also now become an integral part of an undergraduate degree. The Faculty of Arts Internship Office (AIO) assists students who wish to pursue short-term internship opportunities before completing their studies. The Faculty of Arts stands alone nationally in the scope and extent of services its established infrastructure and comprehensive support system makes available to students before, 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 develops its curricula in response to these new realities.

3.2 History of the Faculty of Arts

McGill College, and with it the Faculty of Arts, officially opened on 6 September 1843. The early curriculum, heavily weighted in classical studies, also included lectures in mathematics, logic, French, history, geography, and law. There were very few students: only 15 by 1848.

Sir John William Dawson, who became principal in 1855—an office he would hold until 1893—would institute numerous reforms and lay the cornerstone for the reputation of excellence the Faculty enjoys today. In his inaugural address to the Board of Governors in November 1855, Dawson made it clear it was his intention to provide a curriculum which would range from the classics to modern languages and the professions, and from physics to engineering. Dawson worked quickly. By the late 1850s, instruction was offered in natural history, chemistry, agriculture, mathematics, natural philosophy, classics, history, English literature, logic, and mental and moral philosophy. By 1860, enrolment in the Faculty had climbed to around 50 students.

1884 marked a milestone in the history of McGill and the Faculty of Arts, for in that year Lord Strathcona, Donald Smith, made a donation that allowed for women to be admitted to McGill. The first class of "Donaldas" as they were called in honour of their benefactor, graduated in 1888. By 1889, women constituted one-third of the total enrolment at the College.

In the 1890s, while the general Arts course was still firmly based in the classics, requiring graduating students to be prepared in Latin and Greek, mathematics, and English, a paper on "the leading events in English history" was also required. Honours programs were available in the following disciplines: classical languages; mathematics and physics; mental and moral philosophy; English language, literature, and history; geology and the natural sciences; and modern languages and history.

Over the next two decades, under the leadership of Principal Sir William Peterson, the Faculty continued to expand. In the humanities, the Departments of Classics and Philosophy expanded, as did the Department of Modern Languages, to which offerings in Spanish and Italian were added to those already existing in French and German. The first lectures in Economics and Political Science were offered in 1900 and the first chair in Political Economy was established in 1901. In the sciences, what had been natural philosophy was divided into the disciplines of Physics, Chemistry, Botany, and Zoology. By 1914, enrolment in Arts was at 776.

As the cornerstone faculty of the University, when new social science disciplines emerged over the years, and when the School of Social Work was founded in 1923, they and it were subsumed into Arts. So, too, were disciplines in the sciences. By 1931 the sciences had come to form a substantial part of the Faculty of Arts. While they had their own needs distinct from those of the humanities and social science departments, they did not want to break away from Arts entirely. The solution reached was to rename the faculty the Faculty of Arts and Science. With only minor modifications, this structure endured until 1971 when the science departments left Arts to form the Faculty of Science.

In the post-war years, the Faculty also saw other changes, including in 1967, the removal of the classical language requirement. In the humanities, the Departments of Russian and Slavic Studies, East Asian Languages and Literature, and Linguistics, the Jewish Studies and African Studies programs, and the Institute of Islamic Studies were established. The social sciences saw changes as well: as disciplines further self-defined, they separated into distinct

departments. The Department of Economics and Political Science split into two as did the Department of Sociology and Anthropology. And the Faculty grew in size. Between 1950 and 1970, the number of students in the Faculty of Arts and Science increased from 2,500 to 6,000.

Since then, the Faculty has continued to grow and has continued to respond to developments and changes in the world of academia and the world at large. Today, the Faculty is made up of 15 departments, 22 interdisciplinary programs, the School of Religious Studies, three professional schools (the School of Information Studies, the School of Social Work, and the Max Bell School of Public Policy), four institutes, and 12 centres. It has over 300 tenured or tenure-track scholars, over 8,100 undergraduates and over 1,200 graduate students, and offers several hundred courses.

Source: Frost, Stanley Brice. McGill University for the Advancement of Learning. (2 vols.) Montreal: McGill-Queen's University Press, 1980 (vol. 1), 1984 (vol. 2).

3.3 Programs and Teaching in Arts

Established in 1843, the Faculty of Arts is one of the oldest in Canada and remains the largest at McGill. The Faculty is home to 15 departments, 22 interdisciplinary programs, the School of Religious Studies, three professional schools (the School of Information Studies, the School of Social Work, and the Max Bell School of Public Policy), four institutes, and 12 centres. It has over 300 tenured or tenure-track scholars, over 8,100 undergraduates and over 1,200 graduate students, and offers several hundred courses. The multi-track system in the Faculty of Arts permits students great program flexibility. Students may concentrate in one Arts discipline while obtaining Minor Concentrations in other Arts disciplines, as well as in disciplines in other faculties.

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 mcgill.ca/applying.

The Faculty of Arts also offers a Diploma in Environment from the Bieler 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 [Bieler 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](#).

3.4 About Arts (Undergraduate)

The McGill campus is an oasis in the heart of the business, cultural, and entertainment centres of downtown Montreal. At the centre of the Downtown campus is the McCall MacBain Arts Building, the oldest building on campus and the University's flagship. It houses classrooms, administrative offices, and Moysse Hall, an historic and superbly equipped theatre. For years, the front steps of the Arts Building have been a favourite spot to meet and to take a respite from the rigours of coursework. In addition to the McCall MacBain Arts Building, the Faculty of Arts is housed in 22 other buildings across campus, including historic houses and former apartment buildings across campus.

The Faculty of Arts, the faculty that lies both literally and figuratively at the heart of the University, has enjoyed steady growth since it was established in 1843 and remains by far the largest faculty at McGill. The Faculty is home to 15 departments, 22 interdisciplinary programs, the School of Religious Studies, three professional schools (the School of Information Studies, the School of Social Work, and the Max Bell School of Public Policy), four institutes and 12 centres. It has over 300 tenured or tenure-track scholars, over 8,100 undergraduates and over 1,200 graduate students, and offers several hundred courses. Despite the numbers, the majority of classes in Arts are smaller than those offered by any other large research university in Canada. The humanities and social science disciplines that constitute the Faculty share a common endeavour: to understand the human condition in order to improve it.

The Faculty maintains bilateral exchange programs with many universities around the world and encourages students to spend a term or two studying abroad, either through an exchange program or independently. Internships have also now become an integral part of an undergraduate degree. The Faculty of Arts Internship Office (AIO) assists students who wish to pursue short-term internship opportunities before completing their studies. The Faculty of Arts stands alone nationally in the scope and extent of services its established infrastructure and comprehensive support system makes available to students before, 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 develop its curricula in response to these new realities.

3.4.1 Location

Arts Office of Advising and Student Information Services (OASIS)
Dawson Hall

853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada

Telephone: 514-398-1029

Fax: 514-398-2157

Faculty of Arts website: mcgill.ca/arts

Faculty of Arts Office of Advising and Student Information Services (OASIS) website: mcgill.ca/oasis

Mission Statement: The mission of the Faculty of Arts Office of Advising and Student Information Services (OASIS) is to ensure the integrity and coherence of the Arts undergraduate degree. We provide advice and support to our students regarding their academic trajectory, from entry to graduation. We do so valuing principles of fairness, accessibility, respect, engagement, confidentiality, and collaboration with key stakeholders.

Arts OASIS, and the Office of the Associate Dean (Student Affairs) of the Faculty of Arts, are located on the ground floor of Dawson Hall. For questions, our counter service is located at Room 110. Arts OASIS serves undergraduate students in the Faculty of Arts.

3.4.2 Administrative Officers

Dean

Mary Hunter

Associate Deans

David Wright; Michael Fronda; Manuel Balán; Tabitha Sparks.

Course and Program Officer

Jacqueline Gregory

3.4.3 Faculty of Arts Office of Advising and Student Information Services (OASIS)

Arts OASIS provides ongoing advice and guidance on programs, degree requirements, Academic Standing, interfaculty transfer, study away, and graduation for undergraduate Arts students.

Faculty advisers in Arts OASIS offer help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions. Arts OASIS advisers can be contacted by visiting our [OASIS website](#).

Arts OASIS advisers also assist in approving course selection for UO Arts Freshman students.

Special requests can be made, in writing, to the Associate Dean (Student Affairs). For more information, please refer to our [OASIS website](#).

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 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](#).

(For information about readmission, please refer to the [Arts OASIS website](#).)

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 Information Services (OASIS) websites mcgill.ca/oasis/.

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 from Arts OASIS 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.A. degree, you must fulfil all Faculty and program requirements as indicated below:

- [section 3.6.1: Minimum Credit Requirement](#)
- [section 3.6.2: Residency Requirement](#)

- [University Regulations and Resources](#) > [Undergraduate](#) > [Student Records](#) > [section 1.5.3: Grading and Grade Point Averages \(GPA\)](#)
- [section 3.6.3: Time and Credit Limit for Completion of Degree](#)
- [section 3.6.4: About Program Requirements](#)
- [section 3.6.5: Course Requirements](#) [section 3.6.5: Course Requirements](#)

3.6.1 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 degree 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 exams. AP Examination results with a score of 4 or 5 **must** be declared by you at the time of initial registration at the University. 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 readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of your program. In this case, a new GPA will be calculated. The Associate Dean (Student Affairs), in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are normally subject to the program and degree requirements in effect at the time of readmission. For more information about readmission, see the Arts OASIS website: mcgill.ca/oasis.

3.6.1.1 Advanced Standing Credits

For the University policy on advanced standing credits please see [University Regulations and Information](#) > [Undergraduate](#) > [Student Records](#) > [section 1.5.6.1: Advanced Standing Transfer Credits](#), and refer to mcgill.ca/transferecredit/prospective see if you qualify for advanced standing and/or transfer credits. Additional information is available at mcgill.ca/transferecredit and on the Arts OASIS [FAQ for new students](#).

Arts Students who have been granted advanced standing for the International Baccalaureate, Advanced Placement examinations, GCE A-Levels, French Baccalaureate, CEGEP Diploma of Collegial Studies (DCS), and other qualifications, but who wish to complete a four-year undergraduate program at McGill, will be permitted to do so with the appropriate limitations on the repetition of courses for which they have received exemptions. This gives students with advanced standing the option of completing 120 McGill credits.

Please contact [Arts OASIS](#) should you wish to further discuss this with an adviser.

3.6.2 Residency Requirement

To obtain a degree, you must complete a minimum of 60 credits at McGill University toward the fulfilment of your degree requirements. At least two-thirds of all program requirements (Multi-track, Honours, Faculty) must normally be completed at McGill. In addition, some departments may require that you complete specific components of your program at McGill.

Exceptionally, and subject to departmental approval, if you are in a minor concentration and you pursue an approved exchange or study away program, you may complete up to half of the minor concentration requirements elsewhere.

The residency requirement for the Diploma in Environment is 30 credits completed at McGill.

3.6.3 Time and Credit Limit for Completion of 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. Please speak with an Adviser in [Arts OASIS](#) to plan your degree.

If you want to exceed the minimum credit requirement for your degree, please speak with an Adviser in [Arts OASIS](#) to plan your degree.

Students seeking to exceed the time/credit limit typically do so for valid academic reasons, such as a change of program (subject to departmental approval) and part-time status. For "non-Advanced Standing" students, elective credits over the credit limit will normally be flagged for no credit and the grades will not count in the CGPA.

Students entering the University with Advanced Standing status should refer to [section 3.6.1.1: Advanced Standing Credits](#) for more information.

3.6.4 About Program Requirements

If you need 97 or more credits to complete your degree requirements (4-year degree), you are automatically registered in the Freshman program and are expected to select one of the Freshman program concentrations from the Registration Menu on Minerva. For more information, refer to mcgill.ca/oasis.

If you need 96 or fewer credits to complete your B.A. degree requirements (3-year degree), you must select a program at the time of registration. You may select the Multi-track system, Honours program, Joint Honours program, or Faculty program. For more information, please refer to the appropriate department: mcgill.ca/arts/departments. If you are unsure of which program to select, contact a faculty adviser in Arts OASIS.

3.6.4.1 Freshman Program (Overview)

If you enter McGill directly from high school or enter with 0-23 credits of Advanced Standing, you must complete the Freshman program core requirements (18 credits), designed to provide a basic foundation prior to selecting a departmental program the following year. You may select one of the following Freshman program options on Minerva:

- General Option
- French Option

Regulations to Remember:

- Freshman Program core courses must be passed with a grade of "C" or better;
- Courses in U0 cannot be taken under the Satisfactory/Unsatisfactory grading option;
- Advanced Standing credits may possibly be used towards Freshman Program core requirements, see [Transfer Credit and Advanced Standing](#).

For further details about the Freshman Program, see [Freshman U0](#) and consult the [Approved Freshman Courses List](#) for your selection of Freshman courses. If you have further questions, consult [OASIS](#).

3.6.4.1.1 Bachelor of Arts (B.A.) - Freshman Program - General (30 credits)

The Bachelor of Arts Freshman Program is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits. In the General option, students develop their own program of study using courses from the social sciences, humanities, languages, and/or math and sciences.

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 any one area and a maximum of 12 credits may be taken in the courses offered by any one department. For more information, see the Arts OASIS website for newly admitted Freshman students at: <http://www.mcgill.ca/oasis>.

Core Requirement (18 credits)

18 credits with 6 credits in each of three of the four Arts categories: social sciences, humanities, languages, and mathematics and science.

The course lists below are organized by Arts category and include only courses approved by the offering department for Freshman (U0) students. Students may use these lists to plan their course selection.

Approved Courses - Social Sciences

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: If you intend to follow a psychology program, you should not register in SOCI 216 (Social Psychology). PSYC 215 (Social Psychology) is more appropriate. Credit will not be given for both courses.

Note: A few courses may be listed in both Social Sciences and in another category. For example, CANS 200 and ISLA 210 are considered to be both Social Sciences and Humanities courses.

Approved Courses - Humanities

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: A few courses may be listed in both Humanities and in another category. For example, CANS 200 is considered to be both Humanities and Social Science courses; FREN 198 is considered to be both Humanities and Languages courses.

Approved Courses - Languages

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: When registering for 'D1' courses, you MUST also register for the second part 'D2' of this full-year course.

Note: No more than one language should be taken at the introductory level during the Freshman year. Students with prior knowledge of the language may take higher-level courses with permission from the department.

Note: A few courses may be listed in both Languages and in another category. For example, FREN 198 is considered to be both Languages and Humanities courses.

Approved Courses - Mathematics and Sciences

For a list of the approved Arts Freshman (U0) courses, see the Arts OASIS website at: <http://www.mcgill.ca/oasis>.

Note: Some of the courses are not suitable for first term as they require university-level prerequisites. Please check the course entries for further information about appropriate background before registering.

Note: GEOG 205 is listed as a Mathematics and Sciences course as well as a Social Sciences course.

3.6.4.1.2 Bachelor of Arts (B.A.) - Freshman Program - French (30 credits)

The Bachelor of Arts Freshman Program is designed to ensure that students gain a broad foundation for the three-year degree program. It is comprised of 24-30 credits in one of two program options. In the "En français" or French option, students choose up to 18 credits from a variety of courses conducted in French. These credits may be comprised wholly of language courses, wholly of substantive content courses conducted in French, or a combination of the two.

Core Requirement (18 credits)

Based on their proficiency in French, students select 18 credits from the courses below in French Language and Literature and French as a Second Language.

French Language and Literature Courses (FREN)

FREN 199	(0)	
FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 231	(3)	Linguistique française
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire normative

French as a Second Language (FRSL)

Depending on their level of proficiency, students may include a maximum of 12 credits of intensive French language courses. An intensive language course is a 6 credit term course. Students at the introductory level must take at least 6 credits in French in their Freshman year but may be permitted to complete the remaining core requirement credits in year U1.

FRSL 101	(3)	Beginners French 1
FRSL 102	(3)	Beginners French 2
FRSL 103	(3)	Near Beginners French
FRSL 104	(3)	Corrective French Pronunciation
FRSL 105	(6)	Intensive Beginners French
FRSL 206	(3)	Elementary French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01
FRSL 208	(6)	Intensive Elementary French
FRSL 211D1	(3)	Oral and Written French 1
FRSL 211D2	(3)	Oral and Written French 1
FRSL 212	(3)	Oral and Written French 1
FRSL 215	(6)	Oral and Written French 1 - Intensive
FRSL 216	(0)	
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	(0)	
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 Academic Standing. They are designed to prepare you for graduate study.

Regulations

- To be registered in an Honours program after the first year, you must have attained a GPA and CGPA of at least 3.00 in the previous year, unless you have special permission from the department and the Associate Dean (Student Affairs).
- To complete an Honours degree, you must achieve a minimum CGPA of 3.00. The program GPA (the GPA of all required and complementary courses taken at McGill which constitute the Honours program) must be a minimum of 3.00, although academic units may set higher requirements for their program GPA.
- In addition to the completion of the Honours requirements, you must complete at least a minor concentration in an academic unit other than the one in which the Honours requirements are satisfied. (If you complete a second degree in the Faculty of Arts, you do not need to complete a minor.)

3.6.4.2.3 Bachelor of Arts Degree: Joint Honours Program

If you want to study at the Honours level in two disciplines, you can combine Joint Honours program components from any two Arts disciplines; see [section 3.9.6: Joint Honours Programs](#) for a list of available programs. Each Joint Honours component consists of a maximum of 36 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 complete a Joint Honours degree, you must achieve a minimum CGPA of 3.00. The program GPA (the GPA of all required and complementary courses taken at McGill which constitute the Joint Honours program) must be a minimum of 3.00, although academic units may set higher requirements for your component of the program GPA.

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
 - Environment

3.6.4.2.5 Bachelor of Arts Degree: Science Minor Programs and Out-of-Faculty Programs

Bachelor of Arts Degree - Science Minor Programs: If you want to register for a minor program offered by the Faculty of Science, you must fulfil the Arts program requirements as indicated above, as well as complete any prerequisites for the additional program. If you're interested, you must write to the Associate Dean (Student Affairs), including with your request written approval from the Science Minor Adviser.

Bachelor of Arts Degree - Programs outside the Faculties of Arts or Science: If you want to register for a program offered by another faculty, please consult the OASIS website on this [topic](#) and read [section 3.6.5.3: Programs Outside the Faculties of Arts or Science – For Arts Students](#).

3.6.5 Course Requirements

All required and complementary courses used to fulfil program requirements must be completed with a grade of C or better. If you fail to obtain a satisfactory grade in a required course, you must either pass the supplemental examination in the course if this option is available, or repeat the course. Course substitution will be allowed only in special cases; you should consult your departmental 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 or KF. To attempt a required course for the third time, you must appeal to the Associate Dean (Student Affairs) for permission. If permission is denied, you must withdraw from the program. If the failed course is a complementary course for your program, you may choose to replace it with another appropriate 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.

For more information on course requirements, please contact a departmental adviser at mcgill.ca/oasis/advising/departmental-advising-information.

3.6.5.1 Course Prerequisites

The Faculty of Arts does not prevent you from registering for courses if you do not have the required prerequisites. However, if you lack the prerequisite course, you must consult with the instructor of the course you want to take, to ensure that you have the necessary background. Please note that other faculties may not allow registration without the required prerequisite courses.

3.6.5.2 Course Overlap

You will not receive additional credit towards your degree for any course that overlaps in content with a course for which you have already received credit at McGill, CEGEP, at another university, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate. It is your responsibility to consult with a Faculty Adviser in *Arts OASIS*, the *Science Office for Undergraduate Advising* (SOUSA), or the department offering the course as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course description in this publication. Please refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: mcgill.ca/transferecredit.

Sometimes the same course is offered by two different departments. Such courses are called "double-prefix" courses. When such courses are offered simultaneously, you should take the course offered by the department in which you are obtaining your degree. For example, in the case of double-prefix courses CHEM XYZ and PHYS XYZ, Chemistry students take CHEM XYZ and the Physics students take PHYS XYZ. If a double-prefix course is offered by different departments in alternate years, you may take whichever course best fits your schedule.



Note for Arts Students: Credit for computer courses offered by the School of Computer Science is governed by rules specified in each individual course description.



Note for Science and Bachelor of Arts and Science students:

Credit for statistics courses offered by faculties other than Arts and Science requires the permission of the Associate Dean (Student Affairs), Science, except for students in the B.Sc. Major in Environment, who may take required statistics courses in the Faculty of Agricultural and Environmental Sciences necessary to satisfy their program requirements.

Credit for computer courses offered by faculties other than Science requires the permission of the Associate Dean, Student Affairs, Science, and will be granted only under exceptional circumstances.

For Arts, Science, and Bachelor of Arts and Science students

Credit for statistics courses will be given with the following stipulations:

- Credit will be given for **only one** of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, POTH 204, PSYC 204, SOCI 350.
- Credit will be given for **only one** of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, PSYC 305, SOCI 461, with the exception that you may receive credit for both PSYC 305 and ECON 227D1/D2 or ECON 257D1/D2.
- Students who have already received credit for MATH 324 or MATH 357 will **not** receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program/department adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

3.6.5.3 Programs Outside the Faculties of Arts or Science – For Arts Students

The following regulations apply to you if you are an Arts student and wish to take a program outside the Faculties of Arts or Science:

1. Regardless of the minimum credit requirement towards your B.A. degree, you are allowed a maximum of 12 credits in elective and/or complementary courses taken in faculties other than the Faculties of Arts or Science.
2. In certain designated programs that include a number of required and complementary courses in other faculties, you are permitted a maximum of 30 required, complementary, and elective credits outside the Faculties of Arts or Science. These programs are as follows:

Minors or Minor concentrations:

- Education for Arts students
- Educational Psychology
- Field Studies *
- Finance for non-Management students ^
- Geography Urban Studies *
- Management for non-Management students ^
- Marketing for non-Management students ^
- Music*
- Musical Applications of Technology
- Musical Science and Technology
- Operations Management for non-Management students ^
- Social Entrepreneurship *

Major concentrations:

- Geography Urban Studies *
- Music* mcgill.ca/study/faculties/arts/undergraduate/ug_arts_music

Honours:

- Environment
- Geography Urban Studies *

Joint Honours:

- Economics and Accounting
- Economics and Finance
- For additional Joint Honours options please refer to [Faculty of Arts > Undergraduate > Overview of Programs Offered > section 3.9.6: Joint Honours Programs](#).

Faculty programs:

- Environment
- Industrial and Labour Relations *

* located within the Faculties of Arts or Science

^ students can only pursue **one** minor offered by the Faculty of Management

3. If you combine any two or more of the programs listed above, you may not exceed 40 credits outside the Faculties of Arts or Science.
4. Any courses taught at McGill University may be used towards the maximum allowed with the following exceptions:
 - School of Continuing Studies: School of Continuing Studies courses with a teaching unit that starts with C are not for credit (except for CHEM and courses offered by the McGill Writing Centre).
 - Distance Education (Online Courses): Refer to [section 3.6.5.6: Policy on Online Courses](#) in this publication.
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. For the purpose of this policy, all courses taken to fulfil the requirements for an approved field semester will be considered as courses in Arts or Science.
7. The maximum number of credits allowed will be strictly enforced.

3.6.5.4 Inter-University Transfer Credit Policy for Courses Taken Outside the Faculties of Arts and of Science

If you transfer from a faculty outside the Faculties of Arts and of Science at another institution, you may transfer up to a maximum of 30 credits under the following conditions:

- Only courses passed with a grade of C or better will be transferred. Grades of C-, P or S are not acceptable. The letter grades applied by your former home institution take precedence over the numerical grades if provided.
- Decisions on whether a course is outside the Faculties of Arts and of Science will be based on the original faculty in which your course was taken.
- Refer to [section 3.6.5.6: Policy on Online Courses](#).
- Transfer credits for Continuing Education courses will be granted only if the courses can be used towards a degree program in a faculty other than Continuing Education at your former home university.
- You will be allowed to take courses outside the Faculties of Arts and of Science at McGill only if you have transferred fewer than 12 credits, and then only up to a maximum of 12 credits.
- If you register for a Faculty of Arts program that requires additional credits outside the Faculties of Arts and of Science, you will be allowed to take only the number of credits outside the Faculties of Arts and of Science required to complete your program, **as long as the total number of credits outside the Faculties of Arts and Science, including transfer credits, does not exceed 40 credits.**

3.6.5.5 Interfaculty Transfer Credit Policy for Courses Taken Outside the Faculties of Arts and of Science

Upon a successful interfaculty transfer to the B.A. degree, you will normally receive credit for all the Arts and Science courses you have completed and up to a maximum of 30 credits for courses outside of Arts and Science you completed with grades of D or better. The grades for these courses will remain included in the GPA (regardless of the grade).

- Upon transfer, you will be allowed to take courses outside the Faculties of Arts and of Science at McGill only if you have transferred fewer than 12 credits, and then only up to a maximum of 12 credits.
- If you register for a Faculty of Arts program that requires additional credits outside the Faculties of Arts and of Science, you will be allowed to take only the number of credits outside the Faculties of Arts and of Science required to complete your program, **as long as the total number of credits outside the Faculties of Arts and Science, including transfer credits, does not exceed 40 credits.**

3.6.5.6 Policy on Online Courses

A maximum of 6 credits of **elective** courses taught through online education may be used towards your degree at McGill. Courses taught through online education from institutions other than McGill will be approved as transfer credits under the following conditions:

- the course is given by a government-accredited, degree-granting institution acceptable to McGill;
- the course counts for credit towards **degrees** granted at the institution giving the course (i.e., not courses taken towards a certificate/diploma, nor offered through Continuing Studies);
- students have carefully read and completed the steps specified on the following Arts OASIS web page: mcgill.ca/oasis/away/application-process;
- prior approval for the course is obtained from Arts OASIS (please refer to the above link for details).

The combined total of regular course credits and online education course credits may not exceed the permitted maximum number of credits per term according to Faculty regulations. Courses taught through online education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it. In such cases, prior approval must be obtained from your departmental academic adviser and the Associate Dean of Arts (Student Affairs).

In virtue of agreement between McGill and University of the People (UoP), this policy does not apply to students coming to McGill from UoP.

3.6.5.7 Internship Courses

The Faculty of Arts offers internship courses for credit. For more information, refer to [section 3.10.2: Faculty of Arts Internship Program](#).

3.6.5.8 Courses in Academic English for English as a Second Language Students – Bachelor of Arts Degree

A maximum of 12 credits of CESL courses, with an emphasis on academic writing, are open to you if your primary language is not English and you have studied for fewer than five years in an English-language secondary institution. For more information, please check mcgill.ca/mwc/courses/undergraduate-courses. You are also strongly encouraged to speak to an Arts Faculty Adviser, [OASIS](#).

Placement tests are required for most CESL courses. For more information on placement tests, see mcgill.ca/mwc/courses/placement-tests. Once you receive your test result, the MWC will issue you a permit for course registration.

3.6.5.9 First-Year Seminar Courses

Registration for First-Year Seminars is limited to students in their first year of study at McGill, i.e., newly admitted students in U0 or U1. These courses are designed to provide a closer interaction with professors and better working relations with peers than are available in large introductory courses. These seminars 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 on the [Arts OASIS website](#).

3.7 Advising

If you need 96 or fewer credits to complete your degree requirements, you should consult with a departmental academic adviser in your proposed department of study to obtain advice and approval of your course selection. 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 an adviser in Arts OASIS to review 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](#).

3.8 Examinations

You should refer to [University Regulations and Resources > Undergraduate > Examinations: General Information > section 1.6.3: Final Examinations](#) for information about final examinations and deferred examinations.

The exam schedules are posted on the [McGill exams 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.

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 mcgill.ca/applying.

The Faculty of Arts also offers a Diploma in Environment from the Bieler School of Environment; a 30-credit program is 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 [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.8: Diploma in Environment](#).

The Faculties of Arts and of Science 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](#).

3.9.2 The Degrees Offered

The **Bachelor of Arts** (B.A.) degree integrates the Humanities, Social Sciences, Languages and Literatures, and a wide range of Interdisciplinary Studies into a coherent academic program. It is as broad and comprehensive in scope as is human behaviour and communication. Students interested in gaining insight into how society worked and how people expressed themselves in the past, how society works and how people express themselves today, and what we may look for in the future, pursue a B.A. degree.

Students interested in the traditional and the avant-garde are equally at home in the Faculty of Arts. The B.A. is a degree that allows students to appreciate the interdisciplinary connections with the past in order to understand the present and to prepare for a promising future. A McGill B.A. leads to a wide range of opportunities in many fields, especially those that emphasize critical thinking.

The Faculty of Arts at McGill is especially proud of its major and minor concentration programs known as the multi-track system. The multi-track system encourages flexibility, independence, and knowledge in a diversity of disciplines. It provides students with an unprecedented opportunity to tailor a unique academic profile suited to their specific interests and career ambitions. Students also have the option of doing minor concentrations in other faculties.

The **Bachelor of Social Work** (B.S.W.), an undergraduate program of professional studies, is offered through the School of [section 3.10.37: Social Work \(SWRK\)](#). In addition to the standard three-year B.S.W. program, the School offers a two-year program for students who already have an undergraduate degree in another discipline.

The B.S.W. program is designed to provide an academic environment in which students will develop: integrated social work knowledge pertaining to its history, theoretical foundations, and research base; practice modalities and policies that influence the delivery of health and social services; professional skills in the well-established methods of practice; an understanding of social policy in Canada; an awareness of the various dimensions of diversity and how they intersect in an increasingly heterogeneous society; and a sense of identity with the profession of social work.

The **Bachelor of Theology** (B.Th.) degree is offered through the School of [section 3.10.34: Religious Studies \(RELG\)](#). The B.Th. program is designed primarily for those who intend to qualify for the ordained ministry in a Christian denomination, although some students pursue the degree out of an interest in the academic study of theology for its own sake, or with a view to combining these studies with proficiency gained in other disciplines.

The **Bachelor of Arts & Science** (B.A. & Sc.) is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by the Faculty of Arts and one offered by the Faculty of Science, or a program offered jointly by both faculties.

The central objective of the B.A. & Sc. is to provide students with a broad education that includes in-depth study of disciplines in both faculties. The degree gives students a unique opportunity to achieve a diverse knowledge base, to gain competence in different methods of scholarship, to hone intellectual flexibility, and to integrate material across disciplines.

By choosing their programs appropriately, students who obtain a B.A. & Sc. are well prepared to pursue employment or postgraduate studies, in a wide variety of fields. The varied intellectual skills they have developed render them extremely attractive candidates for potential employers, for professional programs in fields such as business, law, and medicine, and for graduate programs in traditional and interdisciplinary departments. Please refer to the [Bachelor of Arts and Science](#) section for further information.

3.9.3 Minor Concentrations

Minor Concentrations

African Studies – [section 3.10.24.1.3: Bachelor of Arts \(B.A.\) - Minor Concentration African Studies \(18 credits\)](#)

Minor Concentrations

- Anthropology** – [section 3.10.4.6: Bachelor of Arts \(B.A.\) - Minor Concentration Anthropology \(18 credits\)](#)
- Arabic Language** – [section 3.10.24.2.4: Bachelor of Arts \(B.A.\) - Minor Concentration Arabic Language \(18 credits\)](#)
- Art History** – [section 3.10.5.5: Bachelor of Arts \(B.A.\) - Minor Concentration Art History \(18 credits\)](#)
- Behavioural Science** – [section 3.10.33.5: Bachelor of Arts \(B.A.\) - Minor Concentration Behavioural Science \(18 credits\)](#)
- 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** – [section 3.10.5.6: Bachelor of Arts \(B.A.\) - Minor Concentration Communication Studies \(18 credits\)](#)
- Computer Science** – [section 3.10.7.3: Bachelor of Arts \(B.A.\) - Minor Concentration Computer Science \(18 credits\)](#)
- Computer Science, Supplementary** – [section 3.10.7.4: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration in Computer Science \(18 credits\)](#)
- East Asian Language and Literature** – [section 3.10.9.4: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Language and Literature \(18 credits\)](#)
- East Asian Cultural Studies** – [section 3.10.9.5: Bachelor of Arts \(B.A.\) - Minor Concentration East Asian Cultural Studies \(18 credits\)](#)
- East Asian Language, Supplementary** – [section 3.10.9.6: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration East Asian Language \(18 credits\)](#)
- Economics** – [section 3.10.10.4: Bachelor of Arts \(B.A.\) - Minor Concentration Economics \(18 credits\)](#)
- Educational Psychology** – [section 3.10.12.3: Bachelor of Arts \(B.A.\) - Minor Concentration Educational Psychology \(18 credits\)](#)
- Education for Arts Students** – [section 3.10.11.3: Bachelor of Arts \(B.A.\) - Minor Concentration Education for Arts Students \(18 credits\)](#)
- English - Literature** – [section 3.10.13.6: Bachelor of Arts \(B.A.\) - Minor Concentration English - Literature \(18 credits\)](#)
- English - Drama and Theatre** – [section 3.10.13.7: Bachelor of Arts \(B.A.\) - Minor Concentration English - Drama and Theatre \(18 credits\)](#)
- English - Cultural Studies** – [section 3.10.13.8: Bachelor of Arts \(B.A.\) - Minor Concentration English - Cultural Studies \(18 credits\)](#)
- Environment** – see [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.1.1: Bachelor of Arts \(B.A.\) - Minor Concentration Environment \(18 credits\)](#)
- European Literature and Culture** – [section 3.10.26.8.1: Bachelor of Arts \(B.A.\) - Minor Concentration European Literature and Culture \(18 credits\)](#)
- Finance for Non-Management Students** – see [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > Minors for Non-Management Students > section 9.8.7.3: Bachelor of Commerce \(B.Com.\) - Minor Finance \(For Non-Management Students\) \(18 credits\)](#)
- Gender, Sexuality, Feminist, & Social Justice Studies** – [section 3.10.17.4: Bachelor of Arts \(B.A.\) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies \(18 credits\)](#)
- Geography** – [section 3.10.18.5: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(18 credits\)](#)
- Geography (Urban Studies)** – [section 3.10.18.6: Bachelor of Arts \(B.A.\) - Minor Concentration Geography \(Urban Studies\) \(18 credits\)](#)
- German Language** – [section 3.10.26.8.2: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\)](#)
- German Studies** – [section 3.10.26.8.3: Bachelor of Arts \(B.A.\) - Minor Concentration German Studies \(18 credits\)](#)
- GIS and Remote Sensing** – [section 3.10.18.7: Bachelor of Arts \(B.A.\) - Minor Concentration GIS & Remote Sensing \(18 credits\)](#)
- Health Geography** – [section 3.10.18.8: Bachelor of Arts \(B.A.\) - Minor Concentration Health Geography \(18 credits\)](#)
- Hispanic Studies** – [section 3.10.26.8.7: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Studies \(18 credits\)](#)
- History** – [section 3.10.19.4: Bachelor of Arts \(B.A.\) - Minor Concentration History \(18 credits\)](#)
- History and Philosophy of Science** – [section 3.10.22.3.3: Bachelor of Arts \(B.A.\) - Minor Concentration History and Philosophy of Science \(18 credits\)](#)
- Indigenous Studies** – [section 3.10.21.7: Bachelor of Arts \(B.A.\) - Minor Concentration Indigenous Studies \(18 credits\)](#)
- International Development Studies** – [section 3.10.23.3.3: Bachelor of Arts \(B.A.\) - Minor Concentration International Development Studies \(18 credits\)](#)
- Italian Studies** – [section 3.10.26.8.11: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#)
- Jewish Studies** – [section 3.10.25.4: Bachelor of Arts \(B.A.\) - Minor Concentration Jewish Studies \(18 credits\)](#)
- Langue et littérature françaises - Études et pratiques littéraires** – [section 3.10.8.6: Baccalauréat ès Arts \(B.A.\) - Concentration mineure Langue et littérature françaises - Études et pratiques littéraires \(18 crédits\)](#)
- Langue et littérature françaises - Langue française** – [section 3.10.8.5: Baccalauréat ès Arts \(B.A.\) - Concentration mineure Langue & littérature françaises - Langue française \(18 crédits\)](#)

Minor Concentrations

Langue et littérature françaises - Traduction – [section 3.10.8.7: Baccalauréat ès Arts \(B.A.\) - Concentration mineure Langue et litt. françaises - Traduction \(18 crédits\)](#)

Latin American & Caribbean Studies – [section 3.10.26.9.4: Bachelor of Arts \(B.A.\) - Minor Concentration Latin American & Caribbean Studies \(18 crédits\)](#)

Linguistics – [section 3.10.27.6: Bachelor of Arts \(B.A.\) - Minor Concentration Linguistics \(18 crédits\)](#)

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 \(For Non-Management Students\) \(18 crédits\)](#)

Marketing 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 9.8.7.5: Bachelor of Commerce \(B.Com.\) - Minor Marketing \(For Non-Management Students\) \(18 crédits\)](#)

Mathematics – [section 3.10.29.3: Bachelor of Arts \(B.A.\) - Minor Concentration Mathematics \(18 crédits\)](#)

Mathematics, Supplementary – [section 3.10.29.4: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration in Mathematics \(18 crédits\)](#)

Medieval Studies – [section 3.10.22.6.3: Bachelor of Arts \(B.A.\) - Minor Concentration Medieval Studies \(18 crédits\)](#)

Music – [section 3.10.30.6: Bachelor of Arts \(B.A.\) - Minor Concentration Music \(18 crédits\)](#)

Musical Applications of Technology – see [Schulich School of Music > Undergraduate > Browse Academic Units & Programs > Department of Music Research > section 10.8.1.12: Bachelor of Music \(B.Mus.\) - Minor Musical Applications of Technology \(18 crédits\)](#)

Musical Science and Technology – see [Schulich School of Music > Undergraduate > Browse Academic Units & Programs > Department of Music Research > section 10.8.1.13: Bachelor of Music \(B.Mus.\) - Minor Musical Science and Technology \(18 crédits\)](#)

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 \(For Non-Management Students\) \(18 crédits\)](#)

Persian Language – [section 3.10.24.2.5: Bachelor of Arts \(B.A.\) - Minor Concentration Persian Language \(18 crédits\)](#)

Philosophy – [section 3.10.31.4: Bachelor of Arts \(B.A.\) - Minor Concentration Philosophy \(18 crédits\)](#)

Political Science – [section 3.10.32.6: Bachelor of Arts \(B.A.\) - Minor Concentration Political Science \(18 crédits\)](#)

Psychology – [section 3.10.33.4: Bachelor of Arts \(B.A.\) - Minor Concentration Psychology \(18 crédits\)](#)

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 engagement communautaire \(18 crédits\)](#)

Religious Studies – [section 3.10.34.10: Bachelor of Arts \(B.A.\) - Minor Concentration Religious Studies \(18 crédits\)](#)

Russian – [section 3.10.26.8.15: Bachelor of Arts \(B.A.\) - Minor Concentration Russian \(18 crédits\)](#)

Russian Culture – [section 3.10.26.8.16: Bachelor of Arts \(B.A.\) - Minor Concentration Russian Culture \(18 crédits\)](#)

Science for Arts Students – [section 3.10.35.3: Bachelor of Arts \(B.A.\) - Minor Concentration Science for Arts Students \(18 crédits\)](#)

Social Entrepreneurship – [section 3.10.22.8.3: Bachelor of Arts \(B.A.\) - Minor Concentration Social Entrepreneurship \(18 crédits\)](#)

Social Studies of Medicine – [section 3.10.36.4: Bachelor of Arts \(B.A.\) - Minor Concentration Social Studies of Medicine \(18 crédits\)](#)

Sociology – [section 3.10.38.5: Bachelor of Arts \(B.A.\) - Minor Concentration Sociology \(18 crédits\)](#)

South Asian Studies – [section 3.10.19.12: Bachelor of Arts \(B.A.\) - Minor Concentration South Asian Studies \(18 crédits\)](#)

Statistics – [section 3.10.29.5: Bachelor of Arts \(B.A.\) - Minor Concentration Statistics \(18 crédits\)](#)

Statistics, Supplementary – [section 3.10.29.6: Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration Statistics \(18 crédits\)](#)

Turkish Language – [section 3.10.24.2.6: Bachelor of Arts \(B.A.\) - Minor Concentration Turkish Language \(18 crédits\)](#)

Urdu Language – [section 3.10.24.2.7: Bachelor of Arts \(B.A.\) - Minor Concentration Urdu Language \(18 crédits\)](#)

World Cinemas – [section 3.10.22.9.3: Bachelor of Arts \(B.A.\) - Minor Concentration World Cinemas \(18 crédits\)](#)

World Islamic & Middle East Studies – [section 3.10.24.2.8: Bachelor of Arts \(B.A.\) - Minor Concentration World Islamic & Middle East Studies \(18 crédits\)](#)

3.9.4 Major Concentrations

Major Concentrations

- African Studies** – *section 3.10.24.1.4: Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)*
- Anthropology** – *section 3.10.4.7: Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)*
- Art History** – *section 3.10.5.7: Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)*
- Classics** – *section 3.10.19.9: Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)*
- Computer Science** – *section 3.10.7.5: Bachelor of Arts (B.A.) - Major Concentration Computer Science (36 credits)*
- East Asian Studies** – *section 3.10.9.7: Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)*
- Economics** – *section 3.10.10.5: Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)*
- English – Literature** – *section 3.10.13.9: Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)*
- English – Drama and Theatre** – *section 3.10.13.10: Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)*
- English – Cultural Studies** – *section 3.10.13.11: Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)*
- Gender, Sexuality, Feminist, & Social Justice Studies** – *section 3.10.17.5: Bachelor of Arts (B.A.) - Major Concentration Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)*
- Geography** – *section 3.10.18.9: Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)*
- Geography (Urban Studies)** – *section 3.10.18.10: Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Studies) (36 credits)*
- German Studies** – *section 3.10.26.8.4: Bachelor of Arts (B.A.) - Major Concentration German Studies (36 credits)*
- Hispanic Studies** – *section 3.10.26.8.8: Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies (36 credits)*
- History** – *section 3.10.19.5: Bachelor of Arts (B.A.) - Major Concentration History (36 credits)*
- International Development Studies** – *section 3.10.23.3.4: Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)*
- Italian Studies** – *section 3.10.26.8.12: Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)*
- Jewish Studies** – *section 3.10.25.5: Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 credits)*
- Langue et littérature françaises - Études et pratiques littéraires** – *section 3.10.8.9: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)*
- Langue et littérature françaises - Traduction** – *section 3.10.8.10: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)*
- Latin American & Caribbean Studies** – *section 3.10.26.9.5: Bachelor of Arts (B.A.) - Major Concentration Latin American & Caribbean 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 3.10.29.8: 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)*
- Religious Studies** – *section 3.10.34.11: Bachelor of Arts (B.A.) - Major Concentration Religious Studies (36 credits)*
- Russian** – *section 3.10.26.8.17: 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)*
- Statistics** – *section 3.10.29.7: Bachelor of Arts (B.A.) - Major Concentration Statistics (36 credits)*
- World Islamic and Middle East Studies** – *section 3.10.24.2.9: Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)*

3.9.5 Honours Programs

Honours Programs

Anthropology – [section 3.10.4.8: Bachelor of Arts \(B.A.\) - Honours Anthropology \(60 credits\)](#)

Art History – [section 3.10.5.8: Bachelor of Arts \(B.A.\) - Honours Art History \(54 credits\)](#)

Classics – [section 3.10.19.10: Bachelor of Arts \(B.A.\) - Honours Classics \(54 credits\)](#)

East Asian Studies – [section 3.10.9.8: Bachelor of Arts \(B.A.\) - Honours East Asian Studies \(60 credits\)](#)

Economics – [section 3.10.10.6: Bachelor of Arts \(B.A.\) - Honours Economics \(42 credits\)](#)

English (Literature) – [section 3.10.13.12: Bachelor of Arts \(B.A.\) - Honours English - Literature \(54 credits\)](#)

English (Drama and Theatre) – [section 3.10.13.13: Bachelor of Arts \(B.A.\) - Honours English - Drama and Theatre \(54 credits\)](#)

English (Cultural Studies) – [section 3.10.13.14: Bachelor of Arts \(B.A.\) - Honours English - Cultural Studies \(54 credits\)](#)

Environment – see [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.6.1: Bachelor of Arts \(B.A.\) - Honours Environment \(60 credits\)](#)

Gender, Sexuality, Feminist, & Social Justice Studies – [section 3.10.17.6: Bachelor of Arts \(B.A.\) - Honours Gender, Sexuality, Feminist, & Social Justice Studies \(57 credits\)](#)

Geography – [section 3.10.18.11: Bachelor of Arts \(B.A.\) - Honours Geography \(61 credits\)](#)

Geography - Urban Studies – [section 3.10.18.12: Bachelor of Arts \(B.A.\) - Honours Urban Studies \(60 credits\)](#)

German Studies – [section 3.10.26.8.5: Bachelor of Arts \(B.A.\) - Honours German Studies \(60 credits\)](#)

Hispanic Studies – [section 3.10.26.8.9: Bachelor of Arts \(B.A.\) - Honours Hispanic Studies \(60 credits\)](#)

History – [section 3.10.19.6: Bachelor of Arts \(B.A.\) - Honours History \(54 credits\)](#)

International Development Studies – [section 3.10.23.3.5: Bachelor of Arts \(B.A.\) - Honours International Development Studies \(57 credits\)](#)

Italian Studies (Literature) – [section 3.10.26.8.13: 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 3.10.8.8: Baccalauréat ès Arts \(B.A.\) - Spécialisation enrichie Langue & littérature françaises - Études et pratiques littéraires \(72 crédits\)](#)

Latin-American and Caribbean Studies – [section 3.10.26.9.6: 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 11.13.22.16: 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 3.10.34.15: Bachelor of Theology \(B.Th.\) - Honours Religious Studies \(120 credits\)](#)

Russian – [section 3.10.26.8.18: 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 3.10.24.2.10: 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 3.10.10.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics / Joint Honours Component Accounting \(60 credits\)](#)

African Studies – [section 3.10.24.1.5: 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: Bachelor of Arts \(B.A.\) - Joint Honours Component Classics \(36 credits\)](#)

East Asian Studies – [section 3.10.9.9: Bachelor of Arts \(B.A.\) - Joint Honours Component East Asian Studies \(36 credits\)](#)

Economics – [section 3.10.10.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics \(30 credits\)](#)

English – Cultural Studies – [section 3.10.13.17: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Cultural Studies \(36 credits\)](#)

English – Drama and Theatre – [section 3.10.13.15: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Drama and Theatre \(36 credits\)](#)

English – Literature – [section 3.10.13.16: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Literature \(36 credits\)](#)

Environment – see [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.7.1: Bachelor of Arts \(B.A.\) - Joint Honours Component Environment \(36 credits\)](#)

Finance – [section 3.10.10.9: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics / Joint Honours Component Finance \(60 credits\)](#)

Gender, Sexuality, Feminist, & Social Justice Studies – [section 3.10.17.7: Bachelor of Arts \(B.A.\) - Joint Honours Component Gender, Sexuality, Feminist, & Social Justice Studies \(36 credits\)](#)

Geography – [section 3.10.18.13: Bachelor of Arts \(B.A.\) - Joint Honours Component Geography \(36 credits\)](#)

German Studies – [section 3.10.26.8.6: Bachelor of Arts \(B.A.\) - Joint Honours Component German Studies \(36 credits\)](#)

Hispanic Studies – [section 3.10.26.8.10: Bachelor of Arts \(B.A.\) - Joint Honours Component Hispanic Studies \(36 credits\)](#)

History – [section 3.10.19.7: Bachelor of Arts \(B.A.\) - Joint Honours Component History \(36 credits\)](#)

International Development Studies – [section 3.10.23.3.6: Bachelor of Arts \(B.A.\) - Joint Honours Component International Development Studies \(36 credits\)](#)

Italian Studies – [section 3.10.26.8.14: 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 3.10.8.11: Baccalauréat ès Arts \(B.A.\) - Double Spécialisation Langue & littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)

Latin American and Caribbean Studies – [section 3.10.26.9.7: 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 3.10.29.9: 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 \(36 credits\)](#)

Russian – [section 3.10.26.8.19: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 credits\)](#)

Sociology – [section 3.10.38.8: Bachelor of Arts \(B.A.\) - Joint Honours Component Sociology \(36 credits\)](#)

World Islamic and Middle East Studies – [section 3.10.24.2.11: Bachelor of Arts \(B.A.\) - Joint Honours Component World Islamic & Middle East Studies \(36 credits\)](#)

3.9.7 Faculty Programs

Faculty Programs

Industrial & Labour Relations, [section 3.10.22.4.3: Bachelor of Arts \(B.A.\) - Faculty Program Industrial & Labour Relations \(54 credits\)](#)

Environment – see [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.2: B.A. Faculty Program in Environment](#)

3.9.8 Other Degree Programs

The following degree programs are offered by schools within the Faculty of Arts. These programs involve their own admission requirements and application procedures; interested candidates should contact the respective school for further information.

Other Degree Programs in the Faculty of Arts

Religious Studies – [section 3.10.34.14: Bachelor of Theology \(B.Th.\) - Religious Studies \(120 credits\)](#) (see [section 3.10.34: Religious Studies \(RELG\)](#) for further information)

Social Work – [section 3.10.37.5: Bachelor of Social Work \(B.S.W.\) - Social Work \(Three-Year Program\) \(90 credits\)](#) (see [section 3.10.37: Social Work \(SWRK\)](#) for further information)

3.10 Browse Academic Units & Programs

Established in 1843, the Faculty of Arts is one of the oldest in Canada and remains the largest at McGill. With over 8,100 full-time undergraduate and 1,200 graduate students and more than 300 full-time professors, the Faculty offers several hundred courses in its 15 departments, 22 interdisciplinary programs, four schools, and four institutes.

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 Bieler 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 or 45 credits of a 96- to 120-credit program, normally with a minimum CGPA of 2.7, and permission of the departmental internship adviser. Arts internships involve a minimum of 150 hours of work with an approved host institution or organization. Students are required to submit a major topical paper that discusses an aspect of the internship from an academic perspective.

For more information about the Faculty of Arts Internship Program, see mcgill.ca/arts-internships.

3.10.3 Study Abroad and Field Studies

Study Abroad Options

Studying at another university is an opportunity to enrich your undergraduate education and provide you with a chance for personal growth. A term or year abroad takes planning, and must be approved by the Faculty of Arts. Be sure to carefully read about the various types of study abroad opportunities and regulations for Faculty of Arts undergraduate students at mcgill.ca/oasis/away:

- Bilateral Student Exchanges
- Independent Study Abroad
- Studies at a Quebec University (IUT)
- Online Courses
- Summer Explore Program

Field Study Courses and Field Study Minor

See details at mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare/field-study-semester, or at [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

For more Field Study information, please contact the coordinator:

Internships & Field Studies Office
Faculty of Science
Burnside Hall, Room 720
Email: ifso.science@mcgill.ca

Website: mcgill.ca/science/undergraduate/internships-field

or

Science Office for Undergraduate Student Advising (SOUSA)
 Faculty of Science
 Dawson Hall, Room 405
 Telephone: 514-398-5442
 Website: mcgill.ca/science/student

3.10.4 Anthropology (ANTH)

3.10.4.1 Location

Stephen Leacock Building, Room 712
 855 Sherbrooke Street West
 Montreal QC H3A 2T7
 Telephone: 514-398-6868
 Website: mcgill.ca/anthropology

Administrative and Student Affairs Coordinator: Ms. Joanne Terrasi; 514-398-6868, giovanna.terradi@mcgill.ca

3.10.4.2 About Anthropology

The Honours program and Major Concentration in Anthropology emphasize the similarity and diversity of human behaviour; understanding of social and cultural systems; and the processes of socio-cultural change from human origins to the present day. Within Anthropology, the Department concentrates on the fields of Archaeology and Socio-Cultural Anthropology.

Our programs serve as a useful background for those who are planning a career in teaching and research in social sciences and humanities, or a career in law, medicine, foreign service, community organization, public administration, and journalism. The Multi-track Major and Minor Concentrations provide students with a solid grounding in anthropology as a whole, or in selected topical or sub-disciplinary areas, while allowing students to follow programs in other departments that suit their needs and interests. The Honours program provides a greater focus on Anthropology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Students should have a GPA of at least 3.50 to register in an Honours or Joint Honours program after their first year. For information regarding CGPAs needed at graduation for Honours, First-Class Honours, and Joint Honours degrees, see [University Regulations & Resources > Undergraduate > Graduation > Graduation Honours > section 1.9.3.4: Honours and First-Class Honours for Faculties of Arts and Science \(including B.A. & Sc.\)](#).

3.10.4.3 Core Courses

Core courses in Anthropology (350 level) provide students with essential knowledge of method and theory. They are more intensive than other 300-level courses, and **are restricted to Anthropology program students in U2 standing or above.**

3.10.4.4 Anthropology Minor Concentrations

The Minor Concentration in Anthropology consists of 18 credits (six 3-credit courses) in the discipline and is designed to complement students' study in related disciplines or in interdisciplinary programs. The degree may enhance the employment profile of graduating students wishing to work in social services; in multicultural or multiethnic settings; in international development, aboriginal history, or museum work; or in educational or media related professions.

Students should register in the Minor Concentration prior to their second year of study at McGill. No credits taken in a minor may overlap with another degree program. The Minor Concentration may be expanded into the single Anthropology Major Concentration.

3.10.4.5 Anthropology Faculty

Chair

Lisa Stevenson

Undergraduate Program Director

TBA

Graduate Program Director

Lisa Overholtzer

Professors

John Galaty; Ronald W. Niezen; Colin H. Scott.

Associate Professors

Diana K. Allan; Nicole Couture; Sandra T. Hyde; Hillary Kaell; Eduardo O. Kohn; Katherine Lemons; Setrag Manoukian; Kristin Norget; James M. Savelle; Lisa Stevenson; Ismael Vaccaro.

Assistant Professors

Samuele Collu; Peter Johansen; Lisa Overholtzer; Leslie Sabiston.

Associate Members

Gabriella Coleman; Laurence J. Kirmayer; Todd Meyers; Kathleen RiceSahar Sadjadi; Samuel Veissière.

Adjunct Members

Gwen Bennett; André Costopoulos; Arthur Dyke; Nadia Ferrara; Tobias Rees; Viviane Weitzner.

3.10.4.6 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.)

3.10.4.7 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.

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
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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
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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).

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

McCall MacBain Arts Building, Room 155
853 Sherbrooke Street West
Montreal QC H3A 0G5
Telephone: 514-398-2850
Website: 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
McCall MacBain 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 following "[Discover McGill](#)" in late August/early September.

At the Advising Fair, the Academic Adviser will explain the requirements of the Department's programs. Incoming students will have an opportunity to ask questions and receive advice on how to plan their courses. Afterwards, students may meet individually with an adviser regarding registration. Students may sign up for advising appointments after the Departmental Advising Fair.

3.10.5.4 Art History and Communication Studies Faculty

Chair

Matthew C. Hunter

Directors

Jenny Burman – *Director, Graduate Programs in Art History and Communication Studies*

Christine Ross – *Director, Undergraduate Programs in Art History*

Will Straw – *Director, Undergraduate Programs in Communication Studies*

Emeritus and Retired Professors

David Crowley; John M. Fossey; Marc Raboy; Gertrude Robinson; George Szanto.

Professors

Christine Ross; Jonathan Sterne; Will Straw; Angela Vanhaelen.

Associate Professors

Jenny Burman; Darin Barney; Chriscinda Henry; Cecily Hilsdale; Jeehee Hong; Mary Hunter; Matthew Hunter; Carrie Rentschler.

Assistant Professors

Gloria Bell; Bobby Benedicto.

Associate Members

Yuriko Furuhashi, Thomas Lamarre, Andrew Piper.

Affiliate Member

Robert Graham

3.10.5.5 Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)

The Minor Concentration in Art History provides an introduction to the study of diverse artistic traditions from ancient to contemporary times. It is expandable to the Major Concentration Art History.

Complementary Courses (18 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline.

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

3-15 complementary courses chosen from among departmental course offerings. At least 9 of these credits must be at the 300 level or above.

Note: Courses in studio practice cannot be counted towards the Minor Concentration.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism

ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

3.10.5.6 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 transformation of media and communication forms, institutions, practices and technologies, and the mass media representation and mobilization of social difference.

Required Course (3 credits)

COMS 210	(3)	Introduction to Communication Studies
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Complementary Courses (15 credits)

Five courses in Communication Studies selected from:

COMS 200	(3)	History of Communication
COMS 230	(3)	Communication and Democracy
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 301	(3)	Core Concepts in Critical Theory
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
COMS 340	(3)	New Media
COMS 350	(3)	Sound Culture
COMS 354	(3)	Media Studies of Crime
COMS 355	(3)	Media Governance
COMS 361	(3)	Selected Topics Communication Studies 1
COMS 362	(3)	Selected Topics Communication Studies 2
COMS 400	(3)	Critical Theory Seminar
COMS 410	(3)	Cultures in Visualization
COMS 411	(3)	Disability, Technology and Communication
COMS 425	(3)	Urban Culture and Everyday Life
COMS 435	(3)	Advanced Issues in Media Governance
COMS 490	(3)	Special Topics in History and Theory of Media
COMS 491	(3)	Special Topics in Communications Studies
COMS 492	(3)	Power, Difference and Justice
COMS 495	(3)	Directed Reading
COMS 497	(3)	Independent Study
COMS 510	(3)	Canadian Broadcasting Policy

3.10.5.7 Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)

The Major Concentration in Art History concentrates on analysis of forms of visual and material culture from ancient to contemporary times. It provides a grounding in diverse fields and methods of the discipline.

Complementary Courses (36 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

21-33 complementary credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship).

Note: Courses in studio practice cannot be counted toward the Major concentration.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art

ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

3.10.5.8 Bachelor of Arts (B.A.) - Honours Art History (54 credits)

The Honours Art History program provides in-depth training, with emphasis on art 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 and careers in art history or related disciplines.

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 3.50 for admission into the program and the awarding of Honours.

Required Courses (6 credits)

ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (48 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

33-45 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 (other than ARTH 490 Museum Internship).

-6 credits should be taken in a language other than English or in courses in one or two related disciplines selected with the written approval of the academic adviser.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI

ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

3.10.5.9 Bachelor of Arts (B.A.) - Joint Honours Component Art History (36 credits)

The Joint Honours Component Art History is a flexible program that emphasizes breadth, depth as well as art historical methods and research. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.50 for admission into the program and the awarding of Honours

Required Courses (6 credits)

ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (30 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

15-27 credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (other than ARTH 490 Museum Internship).

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI

ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

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

Website: cs.mcgill.ca

3.10.7.2 About Computer Science

For a list of teaching staff, an outline of the nature of computer science, and the opportunities for study in this discipline, refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.9: Computer Science \(COMP\)](#). The School also offers a program in the [Faculty of Engineering](#) and major concentrations for the [Bachelor of Arts and Science](#).

Students must have completed MATH 133, MATH 140, MATH 141 or equivalents in order to begin taking courses in computer science programs.



Note: At the time of registration in the penultimate year, students must declare their intent to receive the Minor Concentration in Computer Science.

3.10.7.3 Bachelor of Arts (B.A.) - Minor Concentration Computer Science (18 credits)

The Minor Concentration Computer Science is designed for students who want to gain a basic understanding of computer science principles and may be taken in conjunction with any program in the Faculty of Arts.

Students are strongly encouraged to talk to an adviser of the School before choosing their complementary courses to ensure they follow an approved course sequence.

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Required Courses (9 credits)

* Students who have sufficient knowledge of programming should not take COMP 202, and instead should replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (9 credits)

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364 and COMP 396.

COMP 230	(3)	Logic and Computability
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 280	(3)	History and Philosophy of Computing
MATH 240	(3)	Discrete Structures

3.10.7.4 Bachelor of Arts (B.A.) - Supplementary Minor Concentration in Computer Science (18 credits)

The Supplementary Minor Concentration may be taken only by students registered in the Major Concentration Computer Science or the Major Concentration Software Engineering. There may be no overlap in credits taken for this Supplementary Minor Concentration and the Major Concentration Computer Science/Software Engineering. Taken together, these constitute a program very close to the Major Computer Science offered by the Faculty of Science. Students must get their selection of courses approved by an Academic Adviser in the School of Computer Science.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements" and "Departmental Programs" for the Multi-track System options.

Complementary Courses (18 credits)

18 credits selected from Computer Science (COMP) courses at the 300 level or above excluding COMP 364 and COMP 396.

Students may also select a maximum of 3 credits of MATH courses from the list below.

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 340	(3)	Discrete Mathematics

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 Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Required Courses (18 credits)

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Notes for the list below:

* Students who have sufficient knowledge in programming do not need to take COMP 202 and should replace it with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 240	(3)	Discrete Structures

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from each of the groups A, B, C, and D:

Group A:

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 340	(3)	Discrete Mathematics

Group C:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

Group D:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from COMP 230 and COMP courses at the 300 level or above (except COMP 364, COMP 396).

3.10.7.6 Bachelor of Arts (B.A.) - Major Concentration Software Engineering (36 credits)

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering". Arts students that are interested in further study in Computer Science can combine the Major Concentration in Software Engineering with the Supplementary Minor Concentration in Computer Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs" for the Multi-track System options.

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

* Note: Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design
COMP 421	(3)	Database Systems
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (6 credits)

At least 6 credits from:

ECSE 326	(3)	Software Requirements Engineering
ECSE 437	(3)	Software Delivery
ECSE 539	(4)	Advanced Software Language Engineering

or any COMP courses at the 300 level or above, excluding COMP 364 and COMP 396.

Suggested COMP courses are:

COMP 322	(1)	Introduction to C++
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development

3.10.7.7 Computer Science (COMP) Related Programs

3.10.7.7.1 Joint Honours in Mathematics and Computer Science

For more information, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.22: Mathematics and Statistics \(MATH\)](#). Admission to the program is based on a strong performance in CEGEP-level mathematics courses. Students must consult an Honours adviser in both departments.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and a minimum program GPA of 3.00.

3.10.8 Le Département des littératures de langue française, de traduction et de création

3.10.8.1 Coordonnées

McCall MacBain Arts, bureau 155
 853, rue Sherbrooke ouest
 Montréal QC H3A 0G5
 Téléphone : 514-398-3772
 Courriel : info.dltc@mcgill.ca
 Site web : mcgill.ca/litterature/fr

3.10.8.2 Généralités : Langue et littérature françaises

Le Département des littératures de langue française, de traduction et de création offre un programme de cours qui couvre l'ensemble des littératures de la langue française (France, Québec, Afrique francophone) ainsi que d'autres aspects des études françaises : théorie, langue, traduction et création littéraire.

Le français est la seule langue de travail au Département. Tous les cours sont donnés en français. Les francophones constituent une proportion importante de notre clientèle, ce qui représente un avantage appréciable pour les étudiants qui ne sont pas de langue française, leur permettant de faire leurs études dans un milieu essentiellement français.

Pour ce qui est de la traduction (principalement de l'anglais vers le français), le programme offert à McGill a comme principale caractéristique de comporter un grand nombre de cours de littérature.

La plupart des cours peuvent être suivis par tout étudiant ayant les connaissances et les capacités voulues : le professeur jugera en dernier ressort. Il existe toutefois quelques restrictions.

1. L'admission aux cours pratiques de langue (Composition 1 et 2, ainsi que Traduction) est subordonnée à la réussite d'un test qui a pour but de déterminer le niveau de connaissance de l'étudiant et d'assurer que celui-ci sera dirigé vers un cours correspondant à ses besoins. Si la préparation de l'étudiant s'avère insuffisante pour lui permettre de suivre un cours au Département, un cours au Centre d'enseignement du français (French as a Second Language) lui sera conseillé.
2. Les étudiants extérieurs au Département peuvent s'inscrire à tous les cours offerts au Département sauf exceptions indiquées dans le descriptif des cours.

3.10.8.3 Association générale des étudiants de langue et littérature françaises (AGELF)

Association regroupant les étudiants de 1er cycle (inscrits à au moins 6 crédits en français) qui a pour but de promouvoir les intérêts de tous ses membres.

3.10.8.4 Professeurs du Département des littératures de langue française, de traduction et de création**Directrice**

I. Daunais

Directrice des études du 1er cycle

J. Everett

Directeur Adjoint des études de 1er cycle

M. Diouf

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

A. Bernadet

Professeurs émérites

M. Angenot; G. Di Stefano; J.-P. Duquette; Y. Lamonde; F. Ricard; Y. Rivard.

Professeurs

M. Biron, F. Charbonneau; I. Daunais; D. Desrosiers; O. Dyens.

Professeurs agrégés

I. Arseneau; A. Bernadet; P. Brissette; M. Diouf; J. Everett; A. Farah; C. Leclerc.

Professeurs adjoints

A. Coussy; L. Ouellet Tremblay.

3.10.8.5 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)

Le programme « Concentration mineure en Langue et littérature françaises (option « Langue française ») » est offert en collaboration avec le Centre d'enseignement du français. Il s'adresse à des étudiant(e)s de français langue seconde qui ont déjà une bonne connaissance de la langue. Il vise l'acquisition d'un niveau de français équivalent au niveau B2 (« utilisateur expérimenté ») du Cadre européen de référence pour les langues dans les sphères universitaire, professionnelle, publique et personnelle.

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.) 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.

3.10.8.6 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 à fournir à chaque étudiant(e) 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, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission au programme nécessite une bonne connaissance du français lu, écrit et parlé.

COURS COMPLÉMENTAIRES (18 crédits)

3 crédits choisis parmi les cours d'introduction suivants :

FREN 222	(3)	Introduction aux études littéraires
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

15 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

ORIENTATION A : « Études littéraires »

12 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

3 crédits choisis parmi les cours du bloc « Pratiques ».

ORIENTATION B : « Pratiques littéraires »

12 crédits choisis parmi les cours d'au moins deux séries différentes du bloc « Pratiques » ;

3 crédits choisis parmi les cours du bloc « Études ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « 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

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)
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)	Introduction to Language Technologies
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

3.10.8.7 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et litt. françaises - Traduction (18 crédits)

Le programme de « Concentration mineure en Langue et littérature françaises (option « Traduction ») » offre une introduction à la traduction de l'anglais vers le français. Il favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français. Il est possible de s'inscrire d'abord à ce programme et de le convertir par la suite en concentration majeure, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier 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)	Introduction to Language Technologies
FREN 239 *3	(3)	Stylistique comparée
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347 *8	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 *4	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 494 *6	(3)	Traduction spécialisée

*3 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*6 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*8 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

3 à 6 crédits choisis parmi les cours suivants :

CCTR 331 *9	(3)	Current Trends in Translation Studies
FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire

FREN 394 *9	(3)	Théories de la traduction
FREN 425 *9	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

*9 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.8.8 Baccalauréat ès Arts (B.A.) - Spécialisation enrichie Langue & littérature françaises - Études et pratiques littéraires (72 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 une initiation à la recherche et 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.

COURS OBLIGATOIRES (21 crédits)

Le Baccalauréat ès Arts compte normalement 90 crédits (ou 120 crédits pour les étudiant(e)s admis en U0). L'étudiant(e) qui s'inscrit au programme « B.A. ; Spécialisation enrichie en Langue & littérature françaises ; option « Études et pratiques littéraires » s'assurera de cumuler, en plus des 72 crédits de spécialisation enrichie, une balance de 18 crédits. L'étudiant(e) peut mobiliser ces 18 crédits comme il ou elle le souhaite. Il ou elle peut cumuler ces crédits au DLLF ou ailleurs, en respectant les limites fixées par l'Université. Il ou elle n'a pas l'obligation de compléter une concentration mineure dans un autre programme mais il ou elle a la possibilité de le faire (auquel cas on s'assurera de respecter les exigences fixées par le département visé).

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
FREN 595	(3)	Séminaire avancé de recherche

COURS COMPLÉMENTAIRES (51 crédits)

De 3 à 6 crédits choisis parmi les cours suivants :

FREN 245	(3)	Grammaire normative
FREN 356	(3)	Grammaire du texte littéraire

L'étudiant(e) doit choisir entre trois orientations - « A : Études littéraires », « B : Création littéraire » ou « C : Traduction littéraire » - et répartir les 45 à 48 crédits restants de la façon suivante :

ORIENTATION A - Études littéraires

au moins 3 crédits choisis parmi tous les cours de la série « Langue française » ;

au moins 9 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature d'avant 1800 ;

au moins 9 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature depuis 1800 ;

de 3 à 6 crédits choisis parmi les cours suivants :

FREN 335	(3)	Théories littéraires 1
FREN 375	(3)	Théories littéraires 2

au moins 3 crédits choisis parmi tous les cours de la série « Théorie » ;

au moins 3 crédits choisis parmi les cours du bloc « Pratiques » ;

de 0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;
 les crédits restants (de 3 à 18) seront choisis parmi les blocs « Études » ou « Pratiques ».

ORIENTATION B - Création littéraire

au moins 3 crédits choisis parmi tous les cours de la série « Langue française » ;
 au moins 6 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature d'avant 1800 ;
 au moins 6 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature depuis 1800 ;
 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 3 crédits choisis parmi tous les cours de la série « Théorie » ;
 au moins 12 crédits choisis parmi les cours de la série « Création » ;
 au moins 3 crédits choisis parmi les cours des séries « Édition » et « Traduction » ;
 0 à 12 crédits choisis parmi les cours du bloc « Cours hors département » ;
 les crédits restants (de 0 à 12) seront choisis parmi les blocs « Études » ou « Pratiques ».

ORIENTATION C - Traduction littéraire

au moins 3 crédits choisis parmi tous les cours de la série « Langue française » ;
 au moins 3 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature d'avant 1800 ;
 au moins 3 crédits choisis parmi les cours de la série « Œuvres et courants » portant sur la littérature depuis 1800 ;
 de 3 à 6 crédits choisis parmi les cours suivants :

CCTR 331 *1	(3)	Current Trends in Translation Studies
FREN 394 *1	(3)	Théories de la traduction
FREN 425 *1	(3)	Traduction et culture

*1 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

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)	Semi-Specialized Translation (English to French)
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.

Liste de cours

I) BLOC: ÉTUDES

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2

FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *1	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1
FREN 394 *1	(3)	Théories de la traduction
FREN 420	(3)	Enjeux de l'écriture littéraire
FREN 422	(3)	Le métier d'écrivain-e
FREN 425 *1	(3)	Traduction et culture
FREN 496	(3)	Savoirs de la littérature 2

*1 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

(c) Série « Traduction »

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)	Introduction to Language Technologies
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 *7	(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 *8	(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 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 (SOCL)
 Women's Studies (WMST)
 World Cinemas (FILM)

3.10.8.9 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 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 : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) 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 *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)	Introduction to Language Technologies
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

3.10.8.10 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 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 310 (« Comparative Stylistics 2 ») à la session d'automne de U1.

COURS OBLIGATOIRES (12 crédits)

CCTR 225 *1	(3)	Introduction to Translation (English to French)
CCTR 325 *2	(3)	Semi-Specialized Translation (English to French)
FREN 222	(3)	Introduction aux études littéraires
FREN 244 *1	(3)	Traduction générale
FREN 245	(3)	Grammaire normative
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 (24 crédits)

De 12 à 15 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)	Introduction to Language Technologies
FREN 239 *3	(3)	Stylistique comparée
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347 *8	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 *4	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 494 *6	(3)	Traduction spécialisée

*3 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*6 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*8 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

De 3 à 6 crédits choisis parmi les cours suivants:

CCTR 331 *9	(3)	Current Trends in Translation Studies
FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *9	(3)	Théories de la traduction
FREN 425 *9	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

*9 L'étudiant(e) peut suivre FREN 394 et/ou le FREN 425 ou le CCTR 331.

6 à 9 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800).

0 à 3 crédits choisis parmi les séries « Création » et « Édition » du bloc « Pratiques ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

II) BLOC: PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série: « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

Note : les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

3.10.8.11 Baccalauréat ès Arts (B.A.) - Double Spécialisation Langue & littérature françaises - Études et pratiques littéraires (36 crédits)

Ce programme, qui prépare aux études supérieures, offre une formation spécialisée incluant l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. La formation vise également à fournir aux étudiant(e)s les moyens de bien maîtriser l'écriture critique et les ressources de la langue. Les étudiant(e)s suivent aussi bien des cours portant sur les études littéraires que des cours portant sur les pratiques littéraires. Ils et elles doivent en outre se spécialiser dans l'un ou l'autre grand domaine en choisissant entre trois orientations : « Études littéraires », « Création littéraire » et « Traduction littéraire ». L'inscription au programme présuppose une très bonne connaissance du français lu, écrit et parlé. Moyennes minimales requises : 3,00 pour l'ensemble des cours du programme et un CGPA de 3,00. Pour les détails quant aux jumelages possibles, consulter le site Web de la Faculté des Arts.

COURS OBLIGATOIRES (18 crédits)

FREN 222	(3)	Introduction aux études littéraires
FREN 333	(3)	Questions de littérature du Moyen Âge et de l'Ancien Régime
FREN 444	(3)	Questions de littérature moderne
FREN 450	(3)	Questions de littérature québécoise
FREN 464D1	(3)	Mémoire de spécialisation
FREN 464D2	(3)	Mémoire de spécialisation

COURS COMPLÉMENTAIRES (18 crédits)

L'étudiant(e) doit choisir entre trois orientations :

« A : Études littéraires », « B : Création littéraire » ou « C : Traduction littéraire » :

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

*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 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

I) BLOC : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1

FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *6	(3)	Current Trends in Translation Studies
FREN 334	(3)	L'oeuvre au miroir de la critique
FREN 335	(3)	Théories littéraires 1
FREN 337	(3)	Textes, imaginaires, sociétés
FREN 375	(3)	Théories littéraires 2
FREN 391	(3)	Savoirs de la littérature 1
FREN 394 *6	(3)	Théories de la traduction
FREN 420	(3)	Enjeux de l'écriture littéraire
FREN 422	(3)	Le métier d'écrivain-e
FREN 425 *6	(3)	Traduction et culture
FREN 496	(3)	Savoirs de la littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série « Édition »

FREN 376	(3)	Correction et révision
FREN 377	(3)	Pratiques de l'édition littéraire
FREN 476	(3)	Le livre

(c) Série « Traduction »

CCTR 219 *7	(3)	Fundamentals of Comparative Stylistics and Writing (French)
CCTR 225 *1	(3)	Introduction to Translation (English to French)
CCTR 325 *2	(3)	Semi-Specialized Translation (English to French)
CCTR 326 *3	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 453 *8	(1.5)	Technical Translation: Information Technology (English to French)
CCTR 455 *8	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *8	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *8	(1.5)	Transcreation (English to French)
CCTR 507 *4	(3)	Editing and Revising (French)
CCTR 535 *9	(3)	Introduction to Language Technologies
FREN 239 *7	(3)	Stylistique comparée
FREN 244 *1	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *2	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *4	(3)	Traduction et révision
FREN 441 *3	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *8	(3)	Traduction spécialisée

*1 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*2 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*3 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*4 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*8 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

3.10.9 East Asian Studies (EAST)

3.10.9.1 Location

Department of East Asian Studies
680 Sherbrooke Street West, Room 425
Montreal QC H3A 2M7
Telephone: 514-398-3650
Email: asian.studies@mcgill.ca
Website: mcgill.ca/eas

3.10.9.2 About East Asian Studies

About East Asian Studies

Welcome to East Asian Studies! If you want to understand the challenges our world is facing today—from climate change to population flows—you owe it to yourself to learn about the cultures and histories of Asia. At McGill, you can study the languages and cultures of China, Japan, and Korea with renowned faculty whose research extends across regions and disciplines, from Buddhist art to Japanese Anime, from Korean cinema to Chinese sci-fi. We offer general survey courses on Korea, China, and Japan as well as upper level lectures and seminars on questions of media, gender, religion, archaeology and critical theory.

At EAS, we believe that the first step towards gaining knowledge of the history, literature, philosophy, or film of any culture begins with a deep learning of languages. We offer small, hands-on, intensive language classes led by excellent teachers who are committed to every student's progress as well as to facilitating a vibrant community of collaborative learning. We also offer guidance and support for students interested in study abroad programs in other Asian cities.

Our graduate program offers both M.A. and Ph.D. degrees. Students conduct original research, working closely with faculty supervisors in their area of specialty. Guided by their advisers and the Graduate Program Director, 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 doing a Minor, Major, Honours/Joint Honours, or pursuing graduate work, a degree in East Asian Studies will prepare you for future leadership roles in a variety of professions. Our graduates have successfully pursued careers in business, academia, law, the arts, and the sciences. Their background in East Asian studies continues to spark life-long interests in comparative investigation of societies, politics and art, fueled by a commitment to understand the world through challenging familiar perspectives. We invite you to join us!

3.10.9.3 East Asian Studies Faculty

Chair

Jeehee Hong

Director, Undergraduate Studies

Kimberly Chung

Director, Graduate Program

Robin Yates

Emeritus Professor

Kenneth Dean; Thomas Lamarre.

Professors

Grace S. Fong; Robin D.S. Yates.

Associate Professors

Yuriko Furuhashi; Jeehee Hong; Gavin Walker.

Assistant Professors

Kimberly Chung; Xinyu Dong; Gal Gvili; Maria Cecilia Hwang; Lei Kwan (Rongdao) Lai; Marianne Tarcov.

Faculty Lecturers

Jennie Chang, Tomoko Ikeda, Myung Hee Kim, Yasuko Senoo, Bill Wang, Qiuyu Wang.

3.10.9.4 Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Complementary Courses (18 credits)

18 credits selected as specified below.

Introduction to East Asian Culture

3 credits from the following:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Language

9 credits of language (see the list below). Students may meet this requirement by passing the first level of Korean, Chinese or Japanese with a grade of "C" or better. Students with prior knowledge of an Asian language may substitute a second level in place of a first level. Or, these students may take 6 credits of language at the 400-level or above from the list and an additional 3 credits of East Asian Studies (EAST) courses.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 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: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema

EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

3.10.9.5 Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
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	()	
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	()	
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 329	()	
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	()	
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)

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 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 (0)
 RELG 451 (3) Zen Buddhism: Poetry and Art
 RELG 452 (0)
 RELG 464 (3) Advanced Tibetan 1
 RELG 465 (3) Advanced Tibetan 2
 RELG 549 (3) Japanese Buddhism in Historical Context

3.10.9.6 Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

3.10.9.7 Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)

Complementary Courses (36 credits)

Introduction to East Asian Culture

3-6 credits from the following courses:

EAST 211 (3) Introduction: East Asian Culture: China
 EAST 212 (3) Introduction: East Asian Culture: Japan
 EAST 213 (3) Introduction: East Asian Culture: Korea

0-3 credits from the following:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 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	()	
EAST 544	(3)	Classical Japanese 2
EAST 547	()	

East Asian Literature, Culture and Society

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies
EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 328	(3)	Archaeology East Asian Empires
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2

EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
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	()	
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	()	
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 328	()	
ANTH 329	()	
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	()	
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China

HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management
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Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia
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Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	()	
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	()	
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhism in Historical Context

3.10.9.8 Bachelor of Arts (B.A.) - Honours East Asian Studies (60 credits)

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00. In addition, Honours students must maintain a minimum GPA of 3.30 in program courses.

Required Courses (6 credits)

Honours thesis:

EAST 498D1	(3)	Honours Thesis: East Asian Studies
EAST 498D2	(3)	Honours Thesis: East Asian Studies

Complementary Courses (54 credits)

Introduction to East Asian Culture

3-6 credits from:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits from:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

24 credits of an East Asian language selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(0)	
EAST 544	(3)	Classical Japanese 2

EAST 547 ()

East Asian Literature, Culture and Society

24 credits of courses in East Asian Literature, Culture and Society.

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: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1

EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	()	
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	()	

Anthropology (ANTH)

ANTH 329	()	
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	()	
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas

HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management
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Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia
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Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(0)	
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(0)	
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 549	(3)	Japanese Buddhism in Historical Context

3.10.9.9 Bachelor of Arts (B.A.) - Joint Honours Component East Asian Studies (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00. In addition, Joint Honours students must maintain a minimum GPA of 3.30 in program courses.

Required Course (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Complementary Courses (33 credits)

Introduction to East Asian Culture

3-6 credits from:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits selected from:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1

EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia

EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

3.10.10 Economics (ECON)

3.10.10.1 Location

Stephen Leacock Building, Room 414
 855 Sherbrooke Street West
 Montreal QC H3A 2T7
 Telephone: 514-398-3030
 Email: undergraduate.economics@mcgill.ca
 Website: mcgill.ca/economics

3.10.10.2 About Economics

For more up-to-date, detailed information about the Department and its programs, please visit our websites as follows:

- Majors and Minors – mcgill.ca/economics/undergraduates/majorminor
- Honours – mcgill.ca/economics/undergraduates/honours

U0 students interested in economics should take ECON 208 and ECON 209. These courses provide good preparation for the honours and major programs, although neither course is a prerequisite for either program. The first year of microeconomics courses for the Honours program (ECON 250D1/D2) and for the Majors program (ECON 230D1/D2) should not be taken in the U0 year.



Note: The Economics Honours program is offered to both B.A. and B.Com. students. All Honours students must meet with a Department Honours adviser in **each** year of their Honours program.

Information on credit for economics courses taken elsewhere is available at mcgill.ca/economics/undergraduates/courses. For information on Economics internships, see mcgill.ca/arts-internships/resources/credit/economics.

3.10.10.3 Economics Faculty

Chair

Francisco Ruge-Murcia

Emeritus Professors

Antal Deutsch; George Grantham; Joseph Greenberg; Jagdish Handa; Kari Polanyi Levitt; John C. Rowley; Victoria Zinde-Walsh.

Professors

Hassan Benchekroun; Robert D. Cairns; Rui Castro; Russell Davidson; Jean-Marie Dufour; John W. Galbraith; Sílvia Gonçalves; Christopher Green; Fabian Lange; Ngo Van Long; Robin Thomas Naylor; Francisco Ruge-Murcia.

Associate Professors

Francisco Alvarez-Cuadrado; Francesco Amodio; Daniel Barczyk; Saraswata Chaudhuri; Matthieu Chemin; Rohan Dutta; James Engle-Warnick; Franque Grimard; Sonia Laszlo; Markus Poschke; Christopher T.S. Ragan; Erin Strumpf; Licun Xue.

Assistant Professors

Leonie Baumann; Nicolas Gendron-Carrier; Laura Lasio; Fernando Saltiel.

Faculty Lecturers

Paul Dickinson; Mayssun El-Attar Vilalta; Ling Ling Zhang.

3.10.10.4 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 website at www.mcgill.ca/desautels/programs/bcom/academics/areas-study/economics/minor-concentration-economics. Students should consult with the advisers in both the Faculty of Management and the Department of Economics for advice on this minor concentration.

3.10.10.5 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.

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
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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.

3.10.10.6 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.

Continuation in the Honours program from one year to the next requires a minimum grade of B- in ECON 250 and a minimum B- average in 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. Note that graduation with Honours has more stringent requirements (see below) than these.

To be awarded an Honours degree, a student must obtain a 3.00 GPA in the required/core courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. Students also have to meet the requirements of the Faculty of Arts for Honours and First Class Honours. 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.

All Honours students are required to see an Honours advisor and also consult the Honours and Joint Honours programs available on the Department's website: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the Department of Economics' website.

Program Prerequisites (0-10 credits)

For entering this program:

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Or equivalent (to be completed prior to U2)

** Or equivalent

Required (core) Courses (30 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at:

<http://www.mcgill.ca/economics/undergraduates/courses/>. Students who have taken equivalent statistics course may be waived the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take ECON 469 in addition to ECON 468.

Normally, ECON 250D1/ECON 250D2 is taken in the U1 year, ECON 352D1/ECON 352D2 is taken in U2, and ECON 450 and ECON 452 are taken in U3. ECON 257D1/ECON 257D2 can be taken in U1 or U2; and ECON 468 can be taken in U2 or U3.

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

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

Complementary Courses (12 credits)

Complementary courses are usually taken in U2 or U3.

12 credits of Economics courses at the 300, 400, or 500 level, approved by an Honours adviser. Unless explicitly approved by the Honours advisor, at least 9 of the 12 credits have to be at the 400 or 500 level. Note that Honours students are not permitted to register for majors or general Economics courses where an Honours or a more advanced undergraduate course in the same subject is offered.

3.10.10.7 Bachelor of Arts (B.A.) - Joint Honours Component Economics (30 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two approved disciplines. For a list of available Joint Honours programs, see "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. Note that graduation with Honours has more stringent requirements (see below) than these.

For graduation with the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

Students also have to meet the requirements of the other component of this program and of the relevant Faculty for Honours and First Class Honours.

Program Prerequisites (0-10 credits)

For entering the program:

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Or equivalent (to be completed prior to U2)

** Or equivalent

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at:

<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 Course (3 credits)

3 credits from:

ECON 460 (3) History of Thought 1 - Honours
 ECON 461 (3) History of Thought 2 - Honours
 ECON 469 (3) Econometrics 2 - Honours

3.10.10.8 Bachelor of Arts (B.A.) - Joint Honours Component Economics / Joint Honours Component Accounting (60 credits)

The B.A. Joint Honours in Economics and Accounting is offered jointly by the Economics Department and the Desautels Faculty of Management. Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics. For the Management component of this Joint Honours program, students should see the Honours program adviser in the Desautels Faculty of Management.

All Joint Honours students should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>.

The B.A. Joint Honours in Economics and Accounting requires the completion of 30 specified credits of Honours economics courses and 30 specified credits for Accounting.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250, and a minimum B- average in the required and complementary Honours Economics courses. Note that graduation with Honours has more stringent requirements than these (see below).

For graduation with Honours in the Economics component, a student must obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the initial and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

To earn Honours in Economics and Accounting, the Faculty of Management requires that students must achieve a grade of B- or better in all courses of the Accounting component of this program.

Program Prerequisites (0-10 credits)

For entering the program:

MATH 133* (3) Linear Algebra and Geometry
 MATH 140** (3) Calculus 1
 MATH 141** (4) Calculus 2

* Or equivalent (to be completed prior to U2)

** Or equivalent

Economics - Required Courses (27 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" 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

Accounting - Required Courses (18 credits)

ACCT 351 (3) Intermediate Financial Accounting 1
 ACCT 352 (3) Intermediate Financial Accounting 2
 ACCT 361 (3) Management Accounting
 ACCT 455 (3) Development of Accounting Thought
 MGCR 211 (3) Introduction to Financial Accounting
 MGCR 341 (3) Introduction to Finance

Accounting - Complementary Courses (12 credits)

12 credits of Accounting courses selected from:

ACCT 354 (3) Financial Statement Analysis
 ACCT 362 (3) Cost Accounting
 ACCT 385 (3) Principles of Taxation
 ACCT 452 (3) Financial Reporting Valuation
 ACCT 453 (3) Advanced Financial Accounting
 ACCT 463 (3) Management Control
 ACCT 475 (3) Principles of Auditing
 ACCT 486 (3) Business Taxation 2

3.10.10.9 Bachelor of Arts (B.A.) - Joint Honours Component Economics / Joint Honours Component Finance (60 credits)

The B.A. Joint Honours in Economics and Finance is offered jointly by the Economics Department and the Desautels Faculty of Management. Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics. For the Management component of this Joint Honours program, students should see the Honours program adviser in the Desautels Faculty of Management.

All Joint Honours students should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>.

The B.A. Joint Honours in Economics and Finance requires the completion of 30 specified credits of Honours Economics courses listed in the Economics Honours Program and 30 specified credits for Finance. This program is designed to take advantage of both McGill's Finance and Economics course offerings to produce a student who is well trained in these two complementary areas. To enter this Joint Honours program, students must have completed two terms of Calculus.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250D1/D2, and a minimum B- average in the required and complementary Honours Economics courses.

For the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50

average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in a course, both the initial and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

To earn the Honours in Economics and Finance, the Faculty of Management requires that students must achieve a grade of B- or better in all courses in the Finance component of this program.

Program Prerequisites (0-10 credits)

For entering this program:

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Or equivalent (to be taken prior to U2)

** Or equivalent

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
FINE 547	(3)	Advanced Finance Seminar
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Introduction to Finance

Finance - Complementary Courses (12 credits)

12 credits of Finance courses selected from:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 444	(3)	Security Trading and Market Making
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Risk Management in Finance
FINE 451	(3)	Fixed Income Analysis
FINE 482	(3)	International Finance 1
FINE 492	(3)	International Corporate Finance

3.10.10.10 Standing in Honours and Joint Honours Programs

Normally, to be awarded an Honours degree, a student must obtain a 3.00 program GPA in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are normally a 3.50 program GPA in the required and complementary credits in Economics, and a CGPA of 3.50. For additional requirements for the B.Com. Honours in Economics, Joint Honours in Economics and Finance, and Joint Honours in Economics and Accounting, consult the *Desautels Faculty of Management* section of this publication for their program grade and GPA requirements. In particular, these programs also require a minimum grade of B- in all Management courses.

3.10.10.11 Economics (ECON) Related Programs

3.10.10.11.1 Minors in Management

Economics students can also do one of the four minors offered by the Desautels Faculty of Management for non-Management students. Refer to [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.7: Minors for Non-Management Students](#) for more information about program requirements and applying.

- Finance for Non-Management Students; see [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > Minors for Non-Management Students > section 9.8.7.3: Bachelor of Commerce \(B.Com.\) - Minor Finance \(For Non-Management Students\) \(18 credits\)](#)
- Management for Non-Management Students; see [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > Minors for Non-Management Students > section 9.8.7.4: Bachelor of Commerce \(B.Com.\) - Minor Management \(For Non-Management Students\) \(18 credits\)](#)
- Marketing 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 9.8.7.5: Bachelor of Commerce \(B.Com.\) - Minor Marketing \(For Non-Management Students\) \(18 credits\)](#)
- 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 \(For Non-Management Students\) \(18 credits\)](#)

3.10.11 Education for Arts Students

3.10.11.1 Location

Internships & Student Affairs Office
 Faculty of Education
 3700 McTavish Street
 Montreal QC H3A 1Y2
 Telephone: 514-398-7042
 Email: isa.education@mcgill.ca
 Website: mcgill.ca/isa/student/minor

3.10.11.2 About Education for Arts Students

This **Minor Concentration** allows Arts students to develop and explore an interest in education. It gives students a solid footing in the basics of pedagogy and may provide a starting point towards a B.Ed., B.A.(Education), or MATL degree. Students who wish to add the minor must first review important information and procedures at mcgill.ca/isa/student/minor.

Completion of the Minor concentration does not qualify a student for certification to teach in the province of Quebec. Students interested in a teaching career should consult [Faculty of Education](#) > [Undergraduate](#) > [section 5.5: Overview of Faculty Programs](#) for undergraduate program information, and [Faculty of Education](#) > [Graduate](#) > [Browse Academic Units & Programs](#) > [Integrated Studies in Education](#) for graduate program information.

3.10.11.3 Bachelor of Arts (B.A.) - Minor Concentration Education for Arts Students (18 credits)

This Minor concentration allows Arts students to develop and explore an interest in education. It will give students a solid footing in the basics of pedagogy and may provide a starting point towards a B.Ed. degree.

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching career should consult the Faculty of Education section of the eCalendar for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Students should consult the Faculty of Arts section on "Faculty Degree Requirements", and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

Required Course (6 credits)

EDEC 260	(3)	Philosophical Foundations
EDPE 300	(3)	Educational Psychology

Complementary Courses (12 credits)

Group A

6 credits selected as follows:

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 and Indigenous 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

3.10.12 Educational Psychology

3.10.12.1 Location

Department of Educational and Counselling Psychology
Faculty of Education

3700 McTavish Street
 Montreal QC H3A 1Y2
 Telephone: 514-398-4242
 Email: ecpinfo.education@mcgill.ca
 Website: mcgill.ca/edu-ecp

Program Director

Professor Alenoush Saroyan
 Department of Educational and Counselling Psychology
 Faculty of Education
 3700 McTavish Street, Room 614
 Telephone: 514-398-4248

Program Coordinators

Department of Educational and Counselling Psychology
 Faculty of Education
 3700 McTavish Street, Room 614
 Telephone: 514-398-4248
 Email: ecpundergrad.education@mcgill.ca

3.10.12.2 About Educational Psychology

Educational Psychology encompasses:

- a. the theoretical and applied study of learning, cognition, and instruction in a variety of educational settings across ages and domains;
- b. instructional technology and computers as cognitive tools in learning;
- c. cognitive and social processes in learning;
- d. evaluation and enhancement of learning and teaching;
- e. methods of fostering inclusive education;
- f. relationships of phenomena related to teaching, learning, and assessment in human development;
- g. the impact of family and community on children’s learning and development.

For further information, please refer to [Faculty of Education > Undergraduate > Browse Academic Units & Programs > section 5.8.1: Educational and Counselling Psychology](#).

3.10.12.3 Bachelor of Arts (B.A.) - Minor Concentration Educational Psychology (18 credits)

Completion of this Minor concentration DOES NOT qualify a student to enter the teaching profession. Students interested in a teaching career should consult the Faculty of Education section of this eCalendar for information about Bachelor of Education programs that lead to teacher certification. See Faculty of Education programs offered by the Department of Integrated Studies in Education.

Respecting Faculty of Arts Multi-track System regulations, students registering for the Major Concentration Psychology and the Minor Concentration Educational Psychology must complete an additional minor concentration in Arts in a unit other than Psychology.

Students should consult the Faculty of Arts sections on "Faculty Degree Requirements," "Program Requirements," and "Departmental Programs" for information on the "Multi-track System" and "Course Requirements" for information on "Courses Outside the Faculties of Arts and of Science" and other topics such as course restrictions, credit counting, etc.

Required Course (3 credits)

This required course has a prerequisite of an introductory course in psychology taken at either CEGEP or university level (e.g., PSYC 100 or EDPE 300). Students who do not have this prerequisite prior to entry into the program may take either PSYC 100 or EDPE 300. EDPE 300 may count as one of the complementary courses for the Minor concentration.

EDPE 335 (3) Instructional Psychology

Complementary Courses (15 credits)

15 credits to be selected as follows:

3 credits to be taken near the end of program completion, one of:

Note: Students with a background in psychology should normally select EDPE 355. EDPE 355 has a prerequisite, either PSYC 231 or permission of the instructor.

EDPE 355	(3)	Cognition and Education
EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences

12 credits selected from the following list:

* Note: Students may not receive credit for both EDPE 208 and PSYC 304. EDPE 208 is not open to students registered in a major or minor concentration in Psychology.

EDPE 208*	(3)	Personality and Social Development
EDPE 304	(3)	Measurement and Evaluation
EDPE 355	(3)	Cognition and Education
EDPE 377	(3)	Adolescence and Education
EDPE 515	(3)	Gender Identity Development
EDPE 535	(3)	Instructional Design
EDPE 555	(3)	Socio-Cultural Foundations of Learning Sciences
EDPI 341	(3)	Instruction in Inclusive Schools
EDPI 526	(3)	Supporting Students' Strengths and Talents
EDPI 527	(3)	Creativity and its Cultivation
EDPI 543	(3)	Family, School and Community

3.10.13 English (ENGL)

3.10.13.1 Location

McCall MacBain Arts Building, Room 155
853 Sherbrooke Street West
Montreal QC H3A 0G5
Telephone: 514-398-5196
Website: mcgill.ca/english

3.10.13.2 About English

The Department of English offers a wide variety of courses covering three linked and overlapping areas: literature written in English; drama, including courses in dramatic literature and courses that introduce the student to the basic elements of theatrical performance; and cultural studies, including analysis of a variety of visual and verbal media. These three areas are integrally related, and all students in the English Department programs are invited to do work in all three, while concentrating in one of them.



Note: Students intending to apply for Honours, or who have already been accepted, should consult an Honours adviser regarding their course selections throughout their program.

3.10.13.3 Department Handbook on the Web

For the most up-to-date information on Department requirements and detailed course descriptions, see the *English Department Handbook* at mcgill.ca/english/undergrad/handbook.

3.10.13.4 Department of English Student Association (DESA)

DESA is the representative body for the students of the English Department at McGill. Any student taking one or more courses in the Department is automatically a member. For more information, please refer to mcgill.ca/english/undergrad/desa.

3.10.13.5 English Faculty

Chair

T. Ponech

Emeritus Professors

M.D. Bristol; M. Kreiswirth; K. McSweeney; P. Ohlin; M. Puhvel; D. Suvin; W.C. Wees.

Professors

K. Borris; M.N. Cooke; A. Hepburn; E. Hurley; M.A. Kilgour; R. Lecker; P. Sabor; M. Stenbaek; B. Trehearne; P. Yachnin.

Associate Professors

S. Banerjee; D.A. Bray; S. Carney; T.W. Folkerth; P. Gibian; Y. Halevi-Wise; D.C. Hensley; M. Hickman; B. Kaite; E. MacLaren; D. Nystrom; A. Osterweil; T. Ponech; M. Popescu; F. Ritchie; N. Schantz; M.W. Selkirk; R. So; T. Sparks; A. Thain; M. Van Dussen; K. Zien.

Assistant Professors

A. Manshel; M. Nicholson.

3.10.13.6 Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

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
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

ENGL 199	(3)	FYS: Form and Representation
ENGL 204	(3)	English Literature and the Bible
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media

ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

3.10.13.7 Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 230	(3)	Introduction to Theatre Studies
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Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 371	(3)	Theatre History: 19th to 21st Centuries
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 485	(3)	Special Topics in Theatre History 1700-1900
ENGL 486	(3)	Special Topics in Theatre History After 1900

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 312	(3)	Victorian and Edwardian Drama 1
ENGL 315	(3)	Shakespeare
ENGL 370	(3)	Theatre History: The Long Eighteenth Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 485	(3)	Special Topics in Theatre History 1700-1900

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

ENGL 407	(3)	The 20th Century
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

ENGL 430	(3)	Studies in Drama
ENGL 431	(3)	Studies in Drama
ENGL 458	(3)	Theories of Text and Performance 1
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 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

3.10.13.8 Bachelor of Arts (B.A.) - Minor Concentration English - Cultural Studies (18 credits)

The Minor Concentration English - Cultural Studies may be expanded to the Major Concentration English - Cultural Studies.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
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 440	(3)	First Nations and Inuit Literature and Media
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

3.10.13.9 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

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
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ENGL 332	(3)	Literature Romantic Period 2
ENGL 405	(3)	Studies in 19th Century Literature 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
ENGL 334	(3)	Victorian Poetry
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 405	(3)	Studies in 19th Century Literature 2

19th Century American

ENGL 326	(3)	19th Century American Prose
ENGL 422	(3)	Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1

Modernist

ENGL 335	(3)	The 20th Century Novel 1
ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer

Post-modernist

ENGL 320	(3)	Postcolonial Literature
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 443	(3)	Contemporary Women's Fiction

Contemporary

ENGL 320	(3)	Postcolonial Literature
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 443	(3)	Contemporary Women's Fiction

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories above and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count toward the Major Concentration in English - Literature.

ENGL 199	(3)	FYS: Form and Representation
ENGL 204	(3)	English Literature and the Bible
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

Major Author

3 credits on a Major Author must be included in the 27 complementary course credits.

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

3.10.13.10 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 <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

6 credits to be taken in the first two terms of the program

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (30 credits)

30 credits selected as described below.

3 credits from the following practice-based courses:

ENGL 269	(3)	Introduction to Performance
ENGL 365	(3)	Costuming for the Theatre 1
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 377	(3)	Costuming for the Theatre 2

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theory or Criticism Courses

3 credits from the list of Theory or Criticism courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Theatre History Courses

3 credits from the list of Theatre History courses:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 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 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 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

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 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
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

3.10.13.11 Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm 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

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
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.

3.10.13.12 Bachelor of Arts (B.A.) - Honours English - Literature (54 credits)

Entry to Honours is by application, normally after two terms in a Departmental program, including at least 18 credits of English. The Faculty of Arts requires that all students admitted to Honours programs complete a second program minor in addition to their Honours program.

Admission to the Honours program is limited to a small number of students with excellent records. The minimum CGPA for application to the Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours

program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. In neither instance is admission guaranteed. After admission into the Honours program, the student is required to maintain a CGPA at a level set by the Faculty for graduation with Honours and a program GPA at the level set by the Department.

The Honours program in English requires 54 credits. Students intending to apply for Honours should plan to complete as many of the specific requirements of their option as possible within the first two years. With the written approval of an adviser, up to 9 credits may be taken outside the Department. All Honours students must complete at least 6 of their complementary credits at the 500 level. Ideally, 500-level seminars chosen will be relevant to the area of the student's independent study in the Honours Essay course (ENGL 491D1/ENGL 491D2), taken without exception in the final year of the program. The Honours Essay is first planned in consultation with a supervisor at the time of application to the Honours program; it is then guided and evaluated by that supervisor during the completion of ENGL 491. Graduation with Honours requires 54 credits of English, a minimum mark of B+ on the Honours Essay, a minimum CGPA of 3.00, and a minimum program GPA of 3.50. Graduation with First Class Honours requires a mark of A on the Honours Essay, a minimum CGPA of 3.50, and a minimum program GPA of 3.70.

Required Courses (18 credits)

ENGL 202, ENGL 203 and ENGL 311 are normally taken in the first two terms of the program. ENGL 360 is normally taken in the second year of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics
ENGL 360	(3)	Literary Criticism
ENGL 491D1	(3)	Honours Essay
ENGL 491D2	(3)	Honours Essay

Complementary Courses (36 credits)

36 credits selected as described below. At least 6 of the 36 credits must be at the 500 level. A maximum of 9 credits may be from another department with the signed permission of the program adviser. At least 3 of the 36 credits must be devoted to a course on a 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 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.

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

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
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 452	(3)	Studies in Old English
ENGL 553	(3)	Old English Literature

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century
ENGL 516	(3)	Shakespeare

Areas of English Literature

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 310	(3)	Restoration and 18th Century Drama

18th Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 403	(3)	Studies in the 18th Century

ENGL 503 (3) 18th Century

Romantic

ENGL 331 (3) Literature Romantic Period 1

ENGL 332 (3) Literature Romantic Period 2

Victorian

ENGL 329 (3) English Novel: 19th Century 1

ENGL 330 (3) English Novel: 19th Century 2

ENGL 334 (3) Victorian Poetry

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

6 credits, 3 credits each from two 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

Post-modernist

ENGL 320 (3) Postcolonial Literature

ENGL 333 (3) Development of Canadian Poetry 2

ENGL 339 (3) Canadian Prose Fiction 2

ENGL 443 (3) Contemporary Women's Fiction

Contemporary

ENGL 320	(3)	Postcolonial Literature
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 421	(3)	African Literature
ENGL 443	(3)	Contemporary Women's Fiction

Literature Stream Offerings

6 credits from among English Department Literature stream offerings.

Department Offerings

9 credits from among other Department offerings (ENGL courses).

3.10.13.13 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:

ENGL 315	(3)	Shakespeare
ENGL 416	(3)	Studies in Shakespeare
ENGL 516	(3)	Shakespeare

Drama and/or Theatre Courses with a Canadian Component

3 credits from a list of courses in Drama and/or Theatre with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theatre History Courses

3 credits from the list of courses in Theatre History:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 308	(3)	English Renaissance Drama 1
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 416	(3)	Studies in Shakespeare
ENGL 467	(3)	Advanced Studies in Theatre History
ENGL 486	(3)	Special Topics in Theatre History After 1900
ENGL 516	(3)	Shakespeare

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 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 516	(3)	Shakespeare

Theory Courses

3 credits from the list of courses in Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

400-Level Theory Courses

3 credits from a list of courses with a theoretical component, from the option's offerings at the 400 level or above:

ENGL 458	(3)	Theories of Text and Performance 1
ENGL 459	(3)	Theories of Text and Performance 2
ENGL 467	(3)	Advanced Studies in Theatre History

Performance-Oriented Courses

9 credits from the list of Performance-Oriented courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3
ENGL 565	(3)	Drama Workshop

English Courses

12 credits in English selected in consultation with an academic adviser.

Drama and Theatre - Courses of Interest - Other Departments

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 towards 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
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

3.10.13.14 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 Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2
ENGL 516	(3)	Shakespeare

Canadian Component

3 credits from a list of courses 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

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

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text

Departmental Offerings

6 credits from among other Departmental offerings (ENGL courses).

Additional Cultural Studies

15 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Honours English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
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ENGL 354	(3)	Sexuality and Representation
ENGL 366	(3)	Film Genre
ENGL 378	(3)	Media and Culture
ENGL 379	(3)	Film Theory
ENGL 380	(3)	Non-Fiction Media: Cinema, Television, Radio
ENGL 382	(3)	International Cinema 1
ENGL 383	(3)	Studies in Communications 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 386	(3)	Fans, Celebrities, Audiences
ENGL 388	(3)	Studies in Popular Culture
ENGL 389	(3)	Studies in Popular Culture
ENGL 390	(3)	Political and Cultural Theory
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 395	(3)	Cultural and Theatre Studies
ENGL 472	(3)	Special Topics: Cultural Studies 2
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 477	(3)	Alternative Approaches to Media 2
ENGL 482	(3)	International Cinema 2
ENGL 512	(3)	Contemporary Studies in Literature and Culture
ENGL 585	(3)	Cultural Studies: Film
ENGL 586	(3)	Cultural Studies: Other Media
ENGL 587	(3)	Theoretical Approaches to Cultural Studies

3.10.13.15 Bachelor of Arts (B.A.) - Joint Honours Component English - Drama and Theatre (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint 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 (6 credits)

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (30 credits)

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:

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
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 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 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 416	(3)	Studies in Shakespeare
ENGL 467	(3)	Advanced Studies in Theatre History
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 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1*	(4.5)	Theatre Laboratory
ENGL 465D2*	(4.5)	Theatre Laboratory
ENGL 466D1**	(3)	Directing for the Theatre
ENGL 466D2**	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3
ENGL 565	(3)	Drama Workshop

*, ** Note: Spanned credits. The amount over 3 credits can be attributed to Departmental Offerings credits.

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.13.16 Bachelor of Arts (B.A.) - Joint Honours Component English - Literature (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The maintenance of a 3.50 program GPA is required for continuation in Joint Honours. Graduation with Joint Honours requires a minimum CGPA of 3.00, a minimum program GPA of 3.50, and a minimum mark of B+ on the Honours Essay. Graduation with First Class Joint Honours in English requires a minimum CGPA of 3.50, a minimum program GPA of 3.70, and a minimum mark of A on the Honours Essay.

Each academic year, there is a special adviser for Joint Honours students, and the receptionist in the General Office can provide their name and contact information. The Department's website <http://www.mcgill.ca/english/> provides additional information on the Joint Honours program and applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (12 credits)

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

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/english>). In addition to the Advanced Study requirement, 3 of the remaining 18 Complementary Courses credits must be completed at the 500 level. A maximum of 9 of the 24 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.)

Areas of English Literature

3 credits from one 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
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 452	(3)	Studies in Old English
ENGL 553	(3)	Old English Literature

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde

ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century
ENGL 516	(3)	Shakespeare

Areas of English Literature

3 credits from one of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 310	(3)	Restoration and 18th Century Drama

18th Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 403	(3)	Studies in the 18th Century
ENGL 503	(3)	18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2

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 333	(3)	Development of Canadian Poetry 2
ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century

ENGL 419	(3)	Studies in 20th Century Literature
ENGL 421	(3)	African Literature
ENGL 443	(3)	Contemporary Women's Fiction

Theory

3 credits from a list of courses on Theory:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Department Offerings

6 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.13.17 Bachelor of Arts (B.A.) - Joint Honours Component English - Cultural Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed 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.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The 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 (9 credits)

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.

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:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2
ENGL 516	(3)	Shakespeare

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

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 483	(3)	Seminar in the Film

ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1
ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

3.10.13.18 Admission Requirements to the Joint Honours Program – English Component

Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available from this link: mcgill.ca/english/files/english/joint_honours_application.pdf or in the Department's General Office (Arts 155), and the specific submission requirements are described by that form. The application will take some time to prepare, and allowance for such preparation (at least several weeks) must be made in order to meet the application deadline. **Incomplete 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](#).

3.10.14 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.

This information remains accurate until the end of the Winter 2022 term. In May 2022, the McGill Writing Centre will transfer to the Faculty of Arts. At that time all course codes will be revised and will begin with WCOM. For the most up-to-date information, please visit [McGill Writing Centre](#).

3.10.15 Environment

Arts students who are interested in studying the environment should refer to [Bieler 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](#)

3.10.16 French Language Centre (FLC)

3.10.16.1 Location

French Language Centre
Arts Building, Room 155
853 Sherbrooke Street West
Montreal QC H3A 0G5
Telephone: 514-398-8896
Email: flc@mcgill.ca
Website: mcgill.ca/flc

3.10.16.2 About French as a Second Language

Courses in French as a Second Language are open to students in any program who need to develop their oral and written skills in the French language either for use in their future professional career or as preparation for more advanced studies in French linguistics, literature, civilization, translation, or in Canadian studies.

Arts Freshman students enrolled in the "En français" option may select up to a maximum of 18 credits from FRSL courses.

3.10.16.3 Admission and Registration

A Placement Test is required before admission to any FRSL course, including Beginners' French. All students should be ready to provide a copy 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 *Le Département des littératures de langue française, de traduction et de création* or the School of Continuing Studies.

Students must be registered to attend FRSL courses; no auditors are accepted.

Placement tests are held throughout the year until places are filled. For the schedule, location, and most current information, refer to the French Language Centre's website at mcgill.ca/flc/registration/placement-tests.

Only a limited number of students can be tested at a time and they will be served in order of registration for oral evaluation sessions.

Registration is limited and Departmental permission is absolutely required.

As numbers are limited in all courses, students who meet the required standard for any given course are admitted on a first-come, first-served basis. Students must attend all classes during the first two weeks in order to keep their places.

The Department reserves the right to transfer a student to another course if the level is inappropriate. Any absence from class during the Course Change period may lead to losing one's place to another student.

3.10.16.4 French Language Centre (FLC) Faculty

Director

Natallia Liakina

Lecturers

Laura Bourrel; Samantha Damay; Natallia Liakina; Cléo Mathieu; Ariel Mercado Lopez; Joannie Proulx; Alida Soucé; Marion Vergues.

3.10.17 Gender, Sexuality, and Feminist Studies

3.10.17.1 Location

Institute for Gender, Sexuality, and Feminist Studies (IGSF)
 3487 Peel Street, 2nd Floor
 Montreal QC H3A 1W7
 Telephone: 514-398-3911
 Email: info.igsf@mcgill.ca
 Website: mcgill.ca/igsf/programs/gsf

Adviser: Andrew Folco; andrew.folco@mcgill.ca

3.10.17.2 About Gender, Sexuality, Feminist, and Social Justice Studies

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS) is an interdisciplinary program that recognises social justice as a driving concept inherent to the study of gender, sexuality, and feminism. Social justice frameworks incorporate critical race studies, disability studies, and Indigenous studies into the examination of gender, sexuality, and feminism.

For further information, consult our [website](#).

3.10.17.3 Gender, Sexuality, and Feminist Studies Faculty

Faculty Lecturer

Alexandra Ketchum; Rachel Sandwell (*Joint apt. with History and Classical Studies*).

Assistant Professor

Roberto Benedicto (*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**

N. Stoljar

Administrative and Student Affairs Coordinator (Student Adviser)

A. Folco

Faculty of Arts Representatives

Art History and Communication Studies: R. Benedicto; J. Burman; C. Rentschler.

East Asian studies: M. Hwang.

Educational and Counselling Psychology: A. Sinacore.

English: A. Thain; K. Zie.

History and Classical Studies: S. Fitzpatrick.

IGSF: V. Ceia, A. Ketchum.

Social Studies of Medicine: J. Fishman.

Ex-officio

N. Stoljar

Student Representatives

Graduate (1)

Undergraduate (1)

3.10.17.4 Bachelor of Arts (B.A.) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies (18 credits)

The Minor Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships.

Complementary Courses (18 credits)

3 credits from the following:

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies

3 credits Gender, Sexuality Feminist, and Social Justice Studies (GSFS) from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1

GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 3 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

12 credits from the following:

Minimum of 6 credits must be at the 300 level or higher. Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 3 transfer credits may be accepted from approved exchange programs subject to University approval.

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture

ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain

HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
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 and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Major Concentration consists of required GSFS courses that allow for an immersion into this area of study, and complementary courses from a range of departments, disciplines, and faculties. Students must see an adviser in Gender, Sexuality, Feminist, and Social Justice Studies at a minimum upon declaring the GSFS Major Concentration and prior to selecting courses for the final year of study.

Students are advised to take GSFS 200 and 250 in their first year in the program, GSFS 300 in their second year of the program, and GSFS 400 in their final year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Required Courses (12 credits)

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 400	(3)	Capstone: Engaging Fields of GSFS

Complementary Courses (24 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

15 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 9 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

15 credits from the following:

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
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ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1

GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
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.

3.10.17.6 Bachelor of Arts (B.A.) - Honours Gender, Sexuality, Feminist, & Social Justice Studies (57 credits)

The Honours program offers a significant degree of analysis and depth of study into contemporary and historical critical issues centered on gender, sexuality, feminism, and social justice beyond the Major through required and complementary course work, intensive research, and seminars. The program enables students to explore the meanings and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Honours program culminates in the completion of an Honours thesis, supervised by a faculty member whose approval is sought the year prior. The Colloquium requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others. Honours students must maintain a program GPA of 3.30 and a CGPA of 3.00.

Students are advised to take GSFS 200 and GFSF 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 496D1/D2 in their last full year of the program.

Students must see and adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Required Courses (18 credits)

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 495D1	(1.5)	Honours/Joint Honours Colloquium
GSFS 495D2	(1.5)	Honours/Joint Honours Colloquium

GSFS 496D1	(3)	Honours Thesis
GSFS 496D2	(3)	Honours Thesis

Complementary Courses (39 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

30 credits selected from the Complementary Course List. Nine credits minimum must be at the 400 or 500 level and 12 credits maximum may be at the 200 level.

Interdisciplinary complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 9 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

30 credits from the following:

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2

ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law

GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues

RELG 338	(3)	Women and the Christian Tradition
RELG 372	(3)	Hindu Goddesses
RELG 399*	(3)	Christian Spirituality
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

Note: Courses marked with an asterisk (*) are acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

3.10.17.7 Bachelor of Arts (B.A.) - Jt Honours Component Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)

The Joint Honours program offers a significant degree of analysis and depth of study into contemporary and historical critical issues centered on gender, sexuality, feminism, and social justice beyond the Major through required and complementary course work, intensive research, and seminars. The program enables students to explore the meanings and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Joint Honours program culminates in the completion of an Honours thesis, supervised by a faculty member whose approval is sought the year prior. The Colloquium requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others. Joint Honours students must maintain a program GPA of 3.30 and a CGPA of 3.00.

Students are advised to take GSFS 200 and GSFS 250 in their first year in the program, and GSFS 300 in their second year of the program. Students must take GSFS 495D1/D2 and GSFS 497D1/D2 in their last full year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Required Courses (15 credits)

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 495D1	(1.5)	Honours/Joint Honours Colloquium
GSFS 495D2	(1.5)	Honours/Joint Honours Colloquium
GSFS 497D1	(1.5)	Joint Honours Thesis
GSFS 497D2	(1.5)	Joint Honours Thesis

Complementary Courses (21 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

12 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 9 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

12 credits from the following:

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan

EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History

HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 372	(3)	Hindu Goddesses
RELG 399*	(3)	Christian Spirituality
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization

SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

Note: Courses marked with an asterisk (*) are acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

3.10.18 Geography (GEOG)

3.10.18.1 Location

Burnside Hall, Room 705
 805 Sherbrooke Street West
 Montreal QC H3A 0B9
 Telephone: 514-398-4951
 Email: undergrad.geog@mcgill.ca
 Website: mcgill.ca/geography

3.10.18.2 About Geography

The Geography Department offers programs in both Arts and Science.

Refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.17: Geography \(GEOG\)](#) for B.Sc. programs in Geography.

Refer to [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.18: Geography \(GEOG\)](#) for B.A. & Sc. programs in Geography.

Geography also administers the B.A. & Sc. interfaculty programs in Sustainability, Science and Society in partnership with the Bieler School of Environment. These programs are described in [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.35: Sustainability, Science and Society](#).

Geography is a broad, holistic discipline; both a natural and a social science because it examines people and their environment and serves as a bridge between physical and cultural processes.

Human Geography is concerned especially with the political, economic, social, and cultural processes and resource practices that create spatial patterns and define particular places.

Physical Geography integrates disciplines such as climatology, geomorphology, geology, biology, hydrology, ecology, soil science, and even marine science.

Whether considering greenhouse gas emissions, the spread of disease, or threats to biodiversity, in all cases geographers are interested in where things happen, why, and with what consequences. Our graduates go on to careers in environmental consulting, social agencies, or non-governmental organizations. Skills in Geographic Information Science (GIS) are very marketable. Students are well prepared for graduate work in social sciences, urban planning, and environmental studies at leading schools.

3.10.18.3 Prerequisites

There are no departmental prerequisites for entrance to the B.A. Geography programs. Students who have completed college or pre-university geography courses fully equivalent to those of first year university may, with the adviser's approval, substitute other courses as part of their program.

3.10.18.4 Geography Faculty

See [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Geography \(GEOG\) > section 11.13.17.4: Geography Faculty](#).

3.10.18.5 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 Studies).

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.

3.10.18.6 Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Studies) (18 credits)

This concentration exposes students to various approaches to urban studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography.

This Minor concentration may be expanded into the Major Concentration Geography (Urban Studies).

Complementary Courses (18 credits)

18 credits selected as follows:

Group A

9-12 credits selected from:

GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before U3.

ARCH 515	(3)	Sustainable Design
ARCH 528	(3)	History of Housing

Art History & Communication Studies

COMS 425	(3)	Urban Culture and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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History

HIST 353	(3)	History of Montreal
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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)

The Minor Concentration in GIS & Remote Sensing program provides B.A. students with the fundamentals of geospatial tools and technologies.

Required Courses (6 credits)

GEOG 201 (3) Introductory Geo-Information Science

GEOG 314 (3) Geospatial Analysis

Complementary Courses (12 credits)

3 credits selected from:

COMP 202 (3) Foundations of Programming

GEOG 333 (3) Introduction to Programming for Spatial Sciences

3 credits selected from:

ATOC 309* (3) Weather Radars and Satellites

GEOG 308* (3) Remote Sensing for Earth Observation

GEOG 414* (3) Advanced Geospatial Analysis

6 credits selected from:

ATOC 309* (3) Weather Radars and Satellites

ESYS 300 (3) Investigating the Earth System

GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414*	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

* may be taken in either list of complementary courses, but credits from one group may not be doubled-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 diverse health outcomes in populations.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change

Complementary Courses (6 credits)

3 credits from:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World

3 credits from:

GEOG 503	(3)	Advanced Topics in Health Geography
PPHS 501*	(3)	Population Health and Epidemiology
PPHS 511*	(3)	Fundamentals of Global Health
PPHS 525*+	(3)	Health Care Systems in Comparative Perspective
PPHS 529*	(3)	Global Environmental Health and Burden of Disease
SOCI 309	(3)	Health and Illness
SOCI 365*	(3)	Health and Development
SOCI 525*+	(3)	Health Care Systems in Comparative Perspective

+ Students can take PPHS 525 OR SOCI 525

* These courses may have additional prerequisites or restrictions.

3.10.18.9 Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)

This program is designed to cover the main elements of human geography.

Required Courses (7 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 210	(3)	Global Places and Peoples
GEOG 290	(1)	Local Geographical Excursion

Complementary Courses (30 credits)

30 credits selected as follows:

Physical Geography

3 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

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 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research

Geography

The remaining 18 credits are to be selected from Geography (GEOG) courses excluding GEOG 200 and GEOG 205. Of these 18 credits, at least 3 credits must be at the 400 level or above.

3.10.18.10 Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Studies) (36 credits)

This major concentration exposes students to various approaches to Urban Studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students majoring in Urban Studies, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods

Complementary Courses (27 credits)**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 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 414	(3)	Advanced Geospatial Analysis

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 and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

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

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
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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

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Additional Geography

18 credits of Geography (GEOG) courses selected in consultation with the Program Adviser.

Outside Geography

9 credits at the 300 or 400 level or above of courses taught by units other than Geography selected from the humanities, social and physical sciences or engineering that have been approved by the Program Adviser as related to the student's focus within Geography.

3.10.18.12 Bachelor of Arts (B.A.) - Honours Urban Studies (60 credits)

This program exposes students to various approaches to urban studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography.

The B.A. Honours Urban Studies program is more concentrated and focused than the Major concentration. In addition to the Faculty of Arts requirement that Honours students maintain a minimum CGPA of 3.00, students in a Geography Honours program must maintain a program GPA of at least 3.30 and complete a 6-credit Honours thesis. Honours students are encouraged to participate in 500-level seminars with graduate students.

Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students in the Honours Urban Systems, the total number of credits permitted outside Arts and Science is 30. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (21 credits)

*NOTE: Students take either GEOG 425 or GEOG 494, but not both.

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 425*	(3)	Southeast Asia Urban Field Studies
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 494*	(3)	Urban Field Studies

Complementary Courses (39 credits)

39 credits selected as follows:

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Geography

12 credits from the following Geography (GEOG) courses:

* May be taken as required field course or complementary course, but credits from one group may not be double counted in the other.

** Students can choose one only from GEOG 210, GEOG 216, and GEOG 221.

GEOG 203	(3)	Environmental Systems
GEOG 210**	(3)	Global Places and Peoples
GEOG 216**	(3)	Geography of the World Economy
GEOG 221**	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power
GEOG 425*	(3)	Southeast Asia Urban Field Studies
GEOG 494*	(3)	Urban Field Studies

18 credits from the following courses:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before U3.

ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 528	(3)	History of Housing

Art History & Communication Studies

COMS 425	(3)	Urban Culture and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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Geography

GEOG 503	(3)	Advanced Topics in Health Geography
GEOG 504	(3)	Advanced Economic Geography
GEOG 507	(3)	Advanced Social Geography
GEOG 511	(3)	Advanced Political Geography

GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research
GEOG 525	(3)	Asian Cities in the 21st Century

History

HIST 353	(3)	History of Montreal
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

SOCI 222	(3)	Urban Sociology
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 536	(2)	Current Issues in Transportation 1
URBP 537	(2)	Current Issues in Transportation 2
URBP 551	(3)	Urban Design and Planning
URBP 556	(3)	Urban Economy: A Spatial Perspective

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.

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice

Complementary Courses (27 credits)

27 credits selected as follows:

Introductory

12 credits of introductory courses 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

Research

3-6 credits of research courses. Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1/GEOG 492D2. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 492D1	(1.5)	Joint Honours Research
GEOG 492D2	(1.5)	Joint Honours Research

Remaining Geography

6-9 credits from a coherent set of Geography (GEOG) courses approved by the Program Adviser. Including a field course is desirable.

3.10.18.14 Geography (GEOG) Related Programs and Study Semesters

The following programs, as well as several other opportunities for field study, are offered by the Faculty of Science. For further information, refer to mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare/field-study-semester or the *Science Internship & Field Studies Office*.

3.10.18.14.1 Africa Field Study Semester

The Africa program introduces students to East Africa specifically with a view to increasing their understanding of the goals, circumstances, challenges, and opportunities of people living in the areas visited. For more information, see mcgill.ca/africa.

310.18.142 Panama Field Study Semester

The Panama program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) and addresses Latin America's social and tropical environmental issues. For more information, see mcgill.ca/pfss.

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 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

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

310.18.145 Sustainability, Science and Society – Bachelor of Arts and Science (B.A. & Sc.)

The Interfaculty Program in Sustainability, Science and Society as well as the Honours in Sustainability, Science and Society is open only to students in the B.A. & Sc. degree.

Students in the Department of Geography interested in this program should contact:

Michelle Maillet
 Email: advisor.geog@mcgill.ca

For more information about these programs, see [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.35: Sustainability, Science and Society](#).

3.10.19 History and Classical Studies (HIST & CLAS)

3.10.19.1 Location

Administrative Service Centre II
 Stephen Leacock Building, Room 712
 855 Sherbrooke Street West
 Montreal QC H3A 2T7
 Telephone: 514-398-3975
 Fax: 514-398-7476
 Email: undergrad.hcs@mcgill.ca
 Websites: mcgill.ca/history; mcgill.ca/classics

3.10.19.2 About History and Classical Studies

3.10.19.2.1 About History

The Department offers a wide variety of history courses on diverse cultures and societies around the world from antiquity to contemporary times, as well as covering thematic subjects such as historical theory and methodology, history and sexuality, imperialism and colonialism, histories of science, environmental history, and the history of thought and ideas. Exploring the past provides a context for understanding the present. Indeed, history is a window onto the full diversity of human experience. The study of history also encourages the development of transferable skills in research, writing, and critical thinking, and lays the foundation for careers in a variety of professions, including law, business, journalism, academia, finance, government, the arts, science, education, and medicine.

3.10.19.2.2 Programs in History

The Department offers four kinds of **undergraduate programs**:

- Minor Concentration
- Major Concentration
- Honours
- Joint Honours Component (combined with another component from a second discipline)

In all four of our programs, students are required to take a minimum number of courses at the advanced level in order to build research skills and encourage depth. Additionally, students in the major, honours, and joint honours programs are expected to achieve breadth and diversity in their studies. Please visit the [Program website](#) for more details.

Students are encouraged to meet regularly with a departmental adviser to work out a program that suits their specific needs while making sure all program requirements are fulfilled.



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, literature, languages, politics, religions, and cultures of South Asia.

The minor concentration offers two streams:

- Culture and Civilization; or
- Languages (e.g., Persian, Sanskrit, Tibetan, and Urdu-Hindi).

The Culture and Civilization stream allows students to explore their interests in Southern Asia (India, Pakistan, Nepal, Bangladesh, Sri Lanka, Bhutan), through humanities and social science classes while the Languages stream permits combined study of two South Asian languages (at introductory and intermediate levels) or one South Asian language in depth.

For further details, please contact the adviser for the Minor Concentration in South Asian Studies, Prof. Andrea Pinkney (andrea.pinkney@mcgill.ca).

3.10.19.3 History and Classical Studies Faculty

Chair

Catherine Desbarats

Directors

Anastassios (Tassos) Anastassiadis – *Undergraduate Program Director (Classical Studies)*

Heidi Wendt – *Undergraduate Program Director (History)*

Judith Szapor – *Graduate Program Director*

Emeritus Professors

John W. Hellman; Peter Hoffmann; Andr e L vesque; Michael P. Maxwell; Carman I. Miller; Yuzo Ota; Nancy Partner; Albert Schachter; George Michael Woloch; Brian J. Young.

Professors

Gwyn Campbell; Elsbeth Heaman; Gershon D. Hundert; Brian Lewis; Lorenz L thi; Suzanne Morton; Laila Parsons; Andrea Tone; David J. Wright; Robin D.S. Yates; John E. Zucchi.

Associate Professors

Noelani Arista; Malek Abisaab; Anastassios (Tassos) Anastassiadis; Subho Basu; Brian Cowan; Catherine Desbarats; Nicholas Dew; Elizabeth Elbourne; Michael P. Fronda; Charles W. Gladhill; Lynn Kozak; James Krapff; Leonard Moore; Don Nerbas; Jason Opal; Daviken Studnicki-Gizbert; Judith Szapor; Griet Vankeerberghen; Gavin Walker; Heidi Wendt.

Assistant Professors

Wendell Nii Laryea Adjetey; Travis Bruce; Edward Dunsworth; Kristy Ironside; Jeremy Tai; Darian Totten.

Faculty Lecturers

Naomi Kaloudis; Brahm Kleinman; Rachel Sandwell; Martin Sirois.

3.10.19.4 Bachelor of Arts (B.A.) - Minor Concentration History (18 credits)

The Minor Concentration History introduces students to the study of diverse cultures and societies around the world from antiquity to contemporary times. It is an excellent complement to the major concentrations offered in the Faculty of Arts. The Minor Concentration History is expandable to a Major Concentration History.

Students wishing to complete a history program are encouraged to consult a Program Adviser at the beginning of their first year, and to fill out a departmental program advising/audit form. For more information about the undergraduate programs in history, and for advising information and forms, visit the program's website at <http://www.mcgill.ca/history/undergraduate>.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Complementary Courses (18 credits)

18 credits of history courses (HIST courses or selected courses offered in other units - see list below), of which no more than 6 credits may be at the 100- or 200-level.

All undergraduate-level HIST courses.

Courses Offered by Other Units

The following non-HIST courses may be counted as complementary courses toward a history program. Faculty regulations stipulate that a course may not be counted toward more than one program.

CLAS 304	(3)	Ancient Greek Democracy
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
ISLA 315	(3)	Ottoman State and Society to 1839
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

3.10.19.5 Bachelor of Arts (B.A.) - Major Concentration History (36 credits)

The Major Concentration History is a highly flexible program that emphasizes both breadth and depth, while introducing students to different historical theories and methodologies. Students select from a wide variety of courses on diverse cultures and societies around the world from antiquity to contemporary times, and also on thematic subjects such history and sexuality, imperialism and colonialism, histories of science, environmental history, and the history of thought and ideas. Students design their program to match their geographic, chronological, thematic or methodological interests.

Students wishing to complete a history program should consult a Program Adviser at the beginning of their first year, and 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 credit requirements for history programs.

Complementary Courses (36 credits)

Revision, July 2022. Start of revision.

36 credits of HIST or cognate courses (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 may not be used to satisfy Temporal Breadth requirements.

Level requirement:

-Maximum 15 credits of complementary courses at the 200-level.

-Minimum 6 credits of 400- or 500- level courses. Note: students may use at most 3 credits of HIST 498 or HIST 499 to fulfill this requirement.

Revision, July 2022. End of revision.**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 222	(3)	History of Pandemics
HIST 223	(3)	Indigenous Peoples and Empires
HIST 224	(3)	Introduction to the African Diaspora
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

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 303	(3)	Ancient Greek Religion
CLAS 304	(3)	Ancient Greek Democracy
CLAS 305	(3)	Roman Religion
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
ISLA 305	(3)	Topics in Islamic History
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511	(3)	Medieval Islam, 10th-12th Century
ISLA 516	(3)	Medieval Islam, 13th-15th Century
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 312	(3)	Modern Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 348	(3)	Modern Jewish Studies
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371	(3)	Jews and the City

3.10.19.6 Bachelor of Arts (B.A.) - Honours History (54 credits)

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 HIST or cognate courses (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 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 222	(3)	History of Pandemics
HIST 223	(3)	Indigenous Peoples and Empires

HIST 224	(3)	Introduction to the African Diaspora
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

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 303	(3)	Ancient Greek Religion
CLAS 304	(3)	Ancient Greek Democracy
CLAS 305	(3)	Roman Religion
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
ISLA 305	(3)	Topics in Islamic History
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511	(3)	Medieval Islam, 10th-12th Century
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
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 312	(3)	Modern Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 348	(3)	Modern Jewish Studies
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371	(3)	Jews and the City

Cognate course allowance:

Revision, July 2022. Start of revision.

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 18-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 2022. 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

Complementary Courses (33 credits)

Revision, July 2022. Start of revision.

33 credits of HIST courses or cognate courses (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 honours seminar (500-level D1/D2 courses)

- Minimum 6 additional credits 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.

Revision, July 2022. End of revision.

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 222	(3)	History of Pandemics
HIST 223	(3)	Indigenous Peoples and Empires
HIST 224	(3)	Introduction to the African Diaspora
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

Courses Offered by Other Units
Revision, July 2022. Start of revision.

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 303	(3)	Ancient Greek Religion
CLAS 304	(3)	Ancient Greek Democracy
CLAS 305	(3)	Roman Religion
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
ISLA 305	(3)	Topics in Islamic History
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511	(3)	Medieval Islam, 10th-12th Century
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
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 312	(3)	Modern Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 348	(3)	Modern Jewish Studies
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371	(3)	Jews and the City

Revision, July 2022. End of revision.

3.10.19.8 Bachelor of Arts (B.A.) - Minor Concentration Classics (18 credits)

The Minor Concentration in Classical Studies introduces students to the linguistic, historical and cultural dimensions of Greece and Rome. The Minor Concentration can be expanded to a Major Concentration in Classics.

Required Course (3 credits)

CLAS 201	(3)	Greece and Rome
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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.

3.10.19.9 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 allowing students greater flexibility to take a variety of courses in translation.

Required Courses (3 credits)

CLAS 201	(3)	Greece and Rome
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Complementary Courses (33 credits)

33 credits from one of the following two streams.

Classical Languages Stream

33 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Classical Studies Stream

6 credits in the following:

CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society

27 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits intermediate Ancient Greek and/or Latin.

CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections

NOTE: Minimum 6 credits 400-level CLAS courses.

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Note: For either stream students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

3.10.19.10 Bachelor of Arts (B.A.) - Honours Classics (54 credits)

The Honours Classics program is designed for students who plan to pursue graduate studies in Classics or related discipline. The program is highly interdisciplinary. It emphasizes the study of ancient Greek and Latin, requiring proficiency in both languages and advanced coursework in at least one, combined with a strong foundation in ancient history, literature and material cultural studies. Honours students are encouraged to begin coursework in both Greek and Latin as soon as possible, and to meet with the classics program adviser to map out their courses and program.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (24 credits)

CLAS 201	(3)	Greece and Rome
CLAS 301	(3)	Ancient Greek Literature and Society
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
CLAS 407	(3)	Ancient Lyric and Elegy
CLAS 408	(3)	Greek and Roman Oratory
CLAS 409	(3)	Ancient Didactic Poetry
CLAS 461	(3)	Greco-Roman Religious Literature

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 275	(3)	Ancient Roman 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
HIST 475	(3)	Topics: Roman History
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory
RELG 210	(3)	Jesus of Nazareth
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 326	(3)	Christians in the Roman World

Other courses may be counted towards this requirement with the approval of the program adviser.

Minimum 3 credits in classical art or archaeology:

ARTH 209	(3)	Introduction to Ancient Art and Architecture
CLAS 240	(3)	Introduction to Classical Archaeology
CLAS 345	(3)	Study Tour: Greece
CLAS 348	(3)	Topics: Classical Archaeology
CLAS 349	(3)	Archaeology Fieldwork: Italy

Other courses may be counted towards this requirement with the approval of the program adviser.

NOTE: Maximum 18 credits of complementary courses at the 200 level.

Note: a maximum total of 18 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) may be counted toward the program.

3.10.19.11 Bachelor of Arts (B.A.) - Joint Honours Component Classics (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". The Joint Honours Component Classics emphasizes

the study of ancient Greek and Latin: proficiency in both languages is required, advanced coursework is required in at least one of the classical languages. The program is designed for students who wish to pursue graduate studies in classics or related disciplines (such as ancient History), or for graduate programs that require proficiency in ancient languages.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (12 credits)

CLAS 201	(3)	Greece and Rome
CLAS 310	(3)	Intermediate Latin 1
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 500	(3)	Classics Seminar

Complementary Courses (24 credits)

24 credits of Classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NOTE: Maximum 15 credits complementary courses at the 200 level.

NOTE: Maximum 9 credits of non-CLAS courses.

Note: students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

3.10.19.12 Bachelor of Arts (B.A.) - Minor Concentration South Asian Studies (18 credits)

The B.A.: Minor Concentration in South Asian Studies offers breadth and depth on the history, literature, languages, politics, religions, cultures, and societies of South Asia. The minor concentration is divided into two streams, "Culture and Civilization" and "Languages." An interdisciplinary curriculum is collaboratively offered by the Department of Anthropology, English, History and Classical Studies, Political Science, and Sociology, the Institute of Islamic Studies, and the School of Religious Studies, and is complemented by language instruction in Persian, Sanskrit, Tibetan, and Urdu-Hindi.

Complementary Courses (18 credits)

18 credits from one of the following streams:

Stream 1: Culture and Civilization

Note: As course content may change according to the offering unit's yearly curriculum, all classes listed must be approved in consultation with the South Asian Studies adviser as relevant to the Minor Concentration. Students should refer to the eCalendar to confirm any prerequisites for the following courses.

Introductory Curriculum

6 credits from the following:

ANTH 327	(3)	Anthropology of South Asia
ANTH 361	(3)	Archaeology of South Asia
ENGL 297	(3)	Special Topics of Literary Study
HIST 209	(3)	Introduction to South Asian History
ISLA 330	(3)	Islamic Mysticism: Sufism
POLI 322	(3)	Political Change in South Asia
RELG 252	(3)	Hinduism and Buddhism
RELG 254	(3)	Introduction to Yoga Traditions

Intermediate and Advanced Curriculum

12 credits from the following:

ANTH 308	(3)	Political Anthropology 01
ANTH 510	(3)	Advanced Problems in Anthropology of Religion
ENGL 336	(3)	The 20th Century Novel 2
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 408	(3)	The 20th Century
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 481	(3)	History of Bangladesh and Pakistan
ISLA 305	(3)	Topics in Islamic History
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 489	(3)	Special Topics 6
ISLA 555	(3)	Urdu Poetry
ISLA 581	(3)	Special Topics 1
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 353	(3)	Gandhi: His Life and Thought
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 388	(3)	Introduction to Sikhism
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	(0)	
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 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

SANSKRIT

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit

TIBETAN

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

URDU-HINDI

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi

ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

3.10.20 Information Studies (INFS)

3.10.20.1 Location

School of Information Studies
3661 Peel Street
Montreal QC H3A 1X1
Telephone: 514-398-4204
Email: sis@mcgill.ca
Website: mcgill.ca/sis

3.10.20.2 About Information Studies

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

The School of Information Studies offers programs at the graduate level, including a Master of Information Studies, graduate certificates, and a Ph.D. in Information Studies.

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

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

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

Information about current graduate program offerings is available in the Faculty of Arts [Graduate & Postdoctoral Studies](#) section. For complete information about the School of Information Studies, please see the School's website at mcgill.ca/sis.

3.10.20.3 Information Studies Faculty

Director

Kimiz Dalkir

Professors

Colleen Cook

Associate Professors

Joan Bartlett; France Bouthillier; Kimiz Dalkir; M. Max Evans; Ilja Frissen; Benjamin Fung; Catherine Guastavino; Karyn Moffatt.

Assistant Professors

Rebekah Willson; Gracen Brilmyer.

Sessional Lecturers

Maxime Beaulieu; Gordon Burr; Lidia Kruk; Daniela Oliveira; Anton Stiglic.

3.10.21 Institute for the Study of Canada

3.10.21.1 Location

McGill Institute for the Study of Canada
 840 ave du Docteur-Penfield, room 102
 Montreal QC H3A 0G2
 Telephone: 514-398-8346
 Email: misc.iecm@mcgill.ca
 Website: 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 program focuses on different aspects of Canada and its key institutions, including the humanities, social sciences, and liberal arts. Adaptive thinking, communication, independent learning, research capacity, assertiveness, collaboration, critical thinking, problem solving, leadership and networking, and public engagement are the main learning objectives. The program has a focused, practical approach to learning, with more leadership training. The Minor Concentration enables students to take courses about Canada outside the areas of their other major or minor concentrations.

For more information, see the Institute's [website](#).

3.10.21.3 Canadian Studies

Canadian Studies provides students with a broad multidisciplinary view of the nature and development of Canada. The McGill Institute for the Study of Canada offers the following program in Canadian Studies:

- Minor Concentration

The Minor Concentration in Canadian Studies is designed to encourage bilingualism, interdisciplinarity, and critical engagement. Our graduates go on to careers in the arts, government, the media, education, law, business, social service, and the University.

3.10.21.4 Indigenous Studies

The McGill Institute for the Study of Canada offers the following program in Indigenous Studies:

- Minor Concentration in Indigenous Studies

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social, and cultural dimensions of Indigenous life in Canada. Core courses offered by the program will provide interdisciplinary treatments of Indigenous life, and students will choose complementary courses from among those offered in other units at McGill. Topics addressed in courses include the history of Indigenous populations in Canada, aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state. The Minor in Indigenous Studies draws on expertise and experience in Indigenous affairs located at McGill University and within the broader community.

3.10.21.5 McGill Institute for the Study of Canada Faculty

Director

Daniel Béland

Program Director

Canadian Studies: Gillian Lane-Mercier

Indigenous Studies: Noelani M. Arista

3.10.21.6 Bachelor of Arts (B.A.) - Minor Concentration Canadian Studies (18 credits)

This interdisciplinary program focuses on different aspects of Canada and its key institutions, with an emphasis on public affairs. The Minor Concentration enables students to take courses about Canada outside the areas of their other major or minor concentrations.

Required Courses (6 credits)

CANS 200 (3) Understanding Canada

CANS 420 (3) Shaping Public Affairs in Canada

Complementary Courses (12 credits)

3 credits chosen from:

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
INDG 200	(3)	Introduction to Indigenous Studies
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
QCST 200	(3)	Introduction to the Study of Quebec
SOCI 230	(3)	Sociology of Ethnic Relations

3-9 credits in interdisciplinary Canadian Studies (CANS) courses from the following:

CANS 300	(3)	Topics in Canadian Studies 1
CANS 301	(3)	Topics in Canadian Studies 2
CANS 306	(3)	Topics in Indigenous Public Affairs
CANS 307	(3)	Canada in the World
CANS 308	(3)	Sex and Gender in Canada
CANS 310	(3)	Canadian Cultures: Context and Issues
CANS 311	(3)	Topics in Canadian Public Affairs 1
CANS 312	(3)	Topics in Canadian Public Affairs 2
CANS 315	(3)	Indigenous Art and Culture
CANS 401	(3)	Canadian Studies Seminar 1
CANS 402	(3)	Canadian Studies Seminar 2
CANS 404	(3)	Canadian Studies Seminar 4
CANS 405	(3)	Canadian Studies Seminar 5
CANS 406	(3)	Canadian Studies Seminar 6
CANS 412	(3)	Canada and Americas Seminar
CANS 413	(3)	Canada and Quebec Seminar
CANS 499	(3)	Internship - Canadian Studies

0-6 credits chosen from:

ANTH 338	(3)	Indigenous Studies of Anthropology
ARTH 302	(3)	Aspects of Canadian Art
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 393	(3)	Canadian Cinema
FREN 315	(3)	Cinéma québécois
HIST 303	(3)	History of Quebec
HIST 342	(3)	Canada and the World
HIST 343	(3)	Women in Post-Confederation Canada
HIST 357	(3)	Cultural Diversity in Canada
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
LING 325	(3)	Canadian English
POLI 336	(3)	Le Québec et le Canada
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 417	(3)	Health Care in Canada
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 478	(3)	The Canadian Constitution
QCST 300	(3)	Quebec Culture and Society
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.21.7 Bachelor of Arts (B.A.) - Minor Concentration Indigenous Studies (18 credits)

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Required Courses (6 credits)

INDG 200	(3)	Introduction to Indigenous Studies
INDG 401	(3)	Interdisciplinary Seminar in Indigenous Studies

Complementary Courses (12 credits)

A maximum of 3 complementary course credits at the 200-level. A maximum of 6 credits from any given discipline with the exception of Indigenous Studies (INDG) courses.

Anthropology

ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 436	(3)	North American Native Peoples

Canadian Studies

CANS 306	(3)	Topics in Indigenous Public Affairs
CANS 315	(3)	Indigenous Art and Culture

English

ENGL 297	(3)	Special Topics of Literary Study
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ENGL 440 (3) First Nations and Inuit Literature and Media

Gender, Sexuality, and Feminist Studies

GSFS 307 (3) Indigenous Feminisms

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

Indigenous Studies

INDG 202 (3) Topics in Indigenous Studies 1
 INDG 300 (3) Topics in Indigenous Studies 2
 INDG 301 (3) Indigenous Contemporary Resistance
 INDG 302 (3) Introduction to Kanien'ké:ha
 INDG 400 (3) Seminar: Indigenous Studies
 INDG 420 (3) Indigenous Food Sovereignty
 INDG 450 (3) Rotinonhsón:ni Land-Based Pedagogy

Interdisciplinary Field Course

IDFC 500 (3) Indigenous Field Studies

Law

CMPL 500 (3) Indigenous Peoples and the State
 CMPL 500D1 (1.5) Indigenous Peoples and the State
 CMPL 500D2 (1.5) Indigenous Peoples and the State

Linguistics

LING 211 (3) Introduction to Indigenous Languages
 LING 411 (3) Structure of an Indigenous Language

Political Science

POLI 372 (3) Indigenous Peoples and the Canadian State

POLI 436 (3) Aboriginal Rights in the Canadian Constitution

3.10.21.8 Bachelor of Arts (B.A.) - Major Concentration Canadian Studies (36 credits)

The Major Concentration in Canadian Studies is an interdisciplinary program focused on in-depth multidisciplinary perspectives on Canada and its key institutions, with an emphasis on public affairs as it relates to social and cultural issues and debates in the Canadian context and the responses and actions taken or needed to be taken. The program draws on interdisciplinary perspectives incorporating research and approaches from both the humanities and the social sciences.

Required Courses (12 credits)

CANS 200	(3)	Understanding Canada
CANS 306	(3)	Topics in Indigenous Public Affairs
CANS 420	(3)	Shaping Public Affairs in Canada
QCST 200	(3)	Introduction to the Study of Quebec

Complementary Courses (24 credits)

200 Level

3 credits chosen from:

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
INDG 200	(3)	Introduction to Indigenous Studies
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
SOCI 230	(3)	Sociology of Ethnic Relations

300-400 Levels

9-15 credits in the interdisciplinary Canadian Studies (CANS) courses chosen from:

CANS 300	(3)	Topics in Canadian Studies 1
CANS 301	(3)	Topics in Canadian Studies 2
CANS 307	(3)	Canada in the World
CANS 308	(3)	Sex and Gender in Canada
CANS 310	(3)	Canadian Cultures: Context and Issues
CANS 311	(3)	Topics in Canadian Public Affairs 1
CANS 312	(3)	Topics in Canadian Public Affairs 2
CANS 315	(3)	Indigenous Art and Culture
CANS 401	(3)	Canadian Studies Seminar 1
CANS 402	(3)	Canadian Studies Seminar 2
CANS 404	(3)	Canadian Studies Seminar 4
CANS 405	(3)	Canadian Studies Seminar 5
CANS 406	(3)	Canadian Studies Seminar 6
CANS 408	(3)	Individual Reading Course

CANS 412	(3)	Canada and Americas Seminar
CANS 413	(3)	Canada and Quebec Seminar
CANS 499	(3)	Internship - Canadian Studies

6-12 credits chosen from:

ANTH 338	(3)	Indigenous Studies of Anthropology
ARTH 302	(3)	Aspects of Canadian Art
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ENGL 313	(3)	Canadian Drama and Theatre
ENGL 393	(3)	Canadian Cinema
FREN 315	(3)	Cinéma québécois
HIST 303	(3)	History of Quebec
HIST 342	(3)	Canada and the World
HIST 343	(3)	Women in Post-Confederation Canada
HIST 357	(3)	Cultural Diversity in Canada
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
LING 325	(3)	Canadian English
POLI 336	(3)	Le Québec et le Canada
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 417	(3)	Health Care in Canada
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 478	(3)	The Canadian Constitution
QCST 300	(3)	Quebec Culture and Society
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar

3.10.22 Interdisciplinary Studies

3.10.22.1 Location

Interdisciplinary Studies
 Dawson Hall, Room 115
 853 Sherbrooke Street West
 Montreal QC H3A 0G5
 Telephone: 514-398-1380
 Website: mcgill.ca/arts-interdisciplinary

Student Affairs Administrator & Program Adviser: Sonia Masand

Please email interdisciplinary.arts@mcgill.ca to make an appointment

3.10.22.2 About Interdisciplinary Studies in Arts

The Faculty of Arts interdisciplinary programs allow students to complete a set of courses that focus on a topic which is studied by scholars with a variety of disciplinary backgrounds. In most of these programs, courses are chosen from several related academic disciplines, with a foundation level course that introduces interdisciplinary perspectives and a capstone seminar course that helps final year students to draw together the different intellectual approaches they have studied.

Interdisciplinary studies programs are currently offered in the following areas:

- [section 3.10.22.3: History and Philosophy of Science \(HPSC\)](#)
- [section 3.10.22.4: Industrial and Labour Relations](#)
- [section 3.10.22.5: Liberal Arts](#)
- [section 3.10.22.6: Medieval Studies](#)
- [section 3.10.22.7: Quebec Studies/Études sur le Québec \(QCST\)](#)
- [section 3.10.22.8: Social Entrepreneurship](#)
- [section 3.10.22.9: World Cinemas \(FILM\)](#)

3.10.22.3 History and Philosophy of Science (HPSC)

3.10.22.3.1 About History and Philosophy of Science

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. In addition to attending lecture courses, students can also count independent research courses towards the program.

Further information for new and returning students is available at mcgill.ca/hpsc.

3.10.22.3.2 History and Philosophy of Science (HPSC) Faculty

Program Committee Chair

D. Schlimm (*Philosophy*)

3.10.22.3.3 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 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 441	(3)	Philosophy of Science 2
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy

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
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Biology (BIOL)

BIOL 210	(3)	Perspectives of Science
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History (HIST)

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 356	(3)	Medicine in the Medieval West
HIST 410	(3)	Topics in History of Science
HIST 452	(3)	Topics in Pre-Modern Medicine
HIST 457	(3)	Topics in Medical History
HIST 558	(3)	Modern Medicine: Seminar
HIST 559	(3)	Modern Medicine: Research
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

History and Philosophy of Science (HPSC)

HPSC 300	(3)	Independent Studies: History and Philosophy of Science
HPSC 500	(3)	Interdisciplinary Seminar: History & Philosophy of Science

Islamic Studies (ISLA)

ISLA 345	(3)	Science and Civilization in Islam
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Mathematics (MATH)

MATH 338	(3)	History and Philosophy of Mathematics
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Psychology (PSYC)

PSYC 403 (3) Modern Psychology in Historical Perspective

3.10.22.4 Industrial and Labour Relations

3.10.22.4.1 About Industrial and Labour Relations

Industrial and Labour Relations is an interdisciplinary program, enabling students in the Faculty of Arts to study Labour-Management Relations. Students take courses in Economics, Labour-Management Relations, Organizational Behaviour, and Sociology. These courses examine the economic and social forces affecting employer-employee relations in both national and global contexts.

Graduates from this program can apply to the *Ordre des conseillers en ressources humaines agréés* (CRHA; www.portailrh.org), a professional order that certifies human resource professionals in the province of Quebec. Proficiency in French is required for certification.

Further information for new and returning students is available at mcgill.ca/indr.

3.10.22.4.2 Industrial and Labour Relations Faculty

Program Committee Chair

A. Masi (*Desautels Faculty of Management*)

Program Committee

L. Baccini (*Political Science*); B. Eidlin (*Sociology*); J. Engle-Warnick (*Economics*); C. Westgate (*Desautels Faculty of Management*).

3.10.22.4.3 Bachelor of Arts (B.A.) - Faculty Program Industrial & Labour Relations (54 credits)

The Faculty Program in Industrial and Labour Relations provides students with a basic knowledge of the institutions and practices as well as the principal social and economic forces that underlie employment relationships. The program is composed of 54 credits of courses drawn from the Departments of Economics and Sociology within the Faculty of Arts and from Labour-Management Relations within the Desautels Faculty of Management.

Credits outside Arts and Science: Students in the Faculty Program in Industrial and Labour Relations may take no more than 30 credits in courses outside of the Faculties of Arts and of Science. This total includes required and complementary courses taken for the program and elective courses. Students should take at least 12 credits in both Sociology and Economics. Moreover, in the U1 year a student should take at most only one 3-credit elective course in the Desautels Faculty of Management in addition to the required courses, INDR 294 and MGCR 222.

Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements."

Continuance in the Program:

To remain in the program beyond the first year, students must take the six "U1 Required Courses" listed below during their first year and earn a 2.50 GPA in the U1 required courses.

Note: Continuing Studies courses may not be used to fulfil IR program requirements. Similarly, courses in Continuing Studies taken before entering the program may not be used to fulfil program requirements.

Required Courses (33 credits)

U1

INDR 294	(3)	Introduction to Labour-Management Relations
MGCR 222	(3)	Introduction to Organizational Behaviour
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry

U2

ECON 306	(3)	Labour Markets and Wages
INDR 494	(3)	Labour Law
ORGB 423	(3)	Human Resources Management
SOCI 304	(3)	Sociology of the Welfare State
SOCI 420	(3)	Organizations

U3

INDR 492	(3)	Globalization and Labour Policy
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INDR 496 (3) Collective Bargaining

Complementary Courses (21 credits)

U1

6 credits from the following:

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory

Note: ECON 230D1/D2 or ECON 208 and ECON 209.

U2

6 credits of statistics courses from the following:

Note: either from Sociology or Economics, but not both.

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis

U2 or U3

3-9 credits from the following:

ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business
ECON 310	(3)	Introduction to Behavioural Economics
ECON 313	(3)	Economic Development 1
ECON 337	(3)	Introductory Econometrics 1
ECON 338	(3)	Introductory Econometrics 2
ECON 426	(3)	Labour Economics
ECON 440	(3)	Health Economics

0-6 credits from the following:

HIST 373	(3)	Canadian Labour History
INDR 449	(3)	Occupational Health and Safety
INDR 499	(3)	Internship in Industrial Relations
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 380	(3)	Cross Cultural Management
ORGB 409	(3)	Organizational Research Methods
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management

SOCI 321	(3)	Gender and Work
SOCI 354	(3)	Dynamics of Industrial Societies
SOCI 386	(3)	Contemporary Social Movements
SOCI 495	(3)	Social Problems and Conflicts

3.10.22.5 Liberal Arts

3.10.22.5.1 About Liberal Arts

The Liberal Arts program represents a contemporary approach to the traditional concept of a broad, non-specialist undergraduate education in the humanities that is tailored to the environment of a research-intensive university. The program recognizes the value of a classical liberal arts education, yet approaches the liberal arts from a global perspective, emphasizing diversity and difference, and providing new ways of engaging the liberal arts.

The program exposes students to texts from, and histories of, a wide range of cultures and societies. Students will be able to choose from three intellectual streams:

- 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 provide students with tools for critical inquiry and effective communication skills. It affirms in an innovative way the Faculty of Arts' commitment to the humanities and its core mission to foster cross-disciplinary perspectives; diverse and engaged communities; and critical thinking.

For further information, please contact the Director, Liberal Arts Program:

Prof. Matteo Soranzo; 514-398-4400, ext. 089896, matteo.soranzo@mcgill.ca

or visit mcgill.ca/langlitcultures/programs/liberal-arts-program.

3.10.22.5.2 Liberal Arts Faculty

Program Chair/Director

M. Soranzo – *Languages, Literatures, and Cultures*

Program Committee

E. Bolongaro – *Languages, Literatures, and Cultures*; I. Daunais – *Département des littératures de langue française, de traduction et de création*; S. Posthumus – *Languages, Literatures, and Cultures*.

3.10.22.5.3 Bachelor of Arts (B.A.) - Major Concentration Liberal Arts (36 credits)

The Major Concentration in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students are able to choose among three intellectual streams: literature and the arts (including theatre and architecture); history, culture and society; and philosophy and religion. Students in each stream must satisfy distribution requirements in relation to minimum number of 300/400+ level courses; maximum number of courses in one discipline; geographical areas and historical periods.

All students majoring in Liberal Arts are also required to complete a Minor Concentration in a language program (other than English). Students who are native speakers of a language other than English are strongly encouraged to fulfill this requirement in a third language.

The approved language minors are:

Minor Concentration in Classics (Language Stream)

Minor Concentration in East Asian Language and Literature or Supplementary East Asian Language

Minor Concentration in German Language

Minor Concentration in Hispanic Languages

Minor Concentration in Italian Studies

Minor Concentration in Jewish Studies

Minor Concentration in French Language and Literature – French Language

Minor Concentration in World Islamic & Middle East Studies

Minor Concentration in Russian

Minor Concentration in Scriptural Languages

Required Courses

Liberal Arts students are required to take two courses designed to help them reflect on the contemporary significance of a Liberal Arts education and on their experience in the Liberal Arts program.

LIBA 202	(3)	Introduction to Liberal Arts
LIBA 402	(3)	Seminar in Liberal Arts

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)

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
FREN 252	(3)	Littérature québécoise
GERM 259	(3)	Introduction to German Literature 1
HISP 225	(3)	Hispanic Civilization 1
HISP 241	(3)	Survey of Spanish Literature and Culture 1
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ITAL 230	(3)	Understanding Italy
ITAL 295	(3)	Italian Cultural Studies
LLCU 220	(3)	Introduction to Literary Analysis
RELG 203	(3)	Bible and Western Culture
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

Music: up to 6 credits of Music courses (labelled MUAR) can be selected in consultation with the Program Director.

List B (24 credits)

Students in the Literature and the Arts (including Theatre and Architecture) stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Architecture (ARCH), Art History and Communication Studies (labelled ARTH), Classics (CLAS), English (ENGL), French (FREN), German Studies (GERM), Hispanic Studies (HISP), Italian Studies (ITAL), Languages, Literatures, and Cultures (LLCU), and Russian Studies (RUSS); and

- any course (other than a course dedicated to teaching a language) at the 200 level or above in Jewish Studies (JWST) listed in the eCalendar under the headings “Biblical Studies,” “Languages and Literatures – Hebrew” and “Language and Literature – Yiddish.”

Students in this stream may also choose a maximum of 9 credits from the following list:

AFRI 401	(3)	Swahili Language and Culture
ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARTH 352	(3)	Feminism in Art and Art History
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema

EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 569	(3)	Advanced Topics: Japanese Literature
HIST 345	(3)	History of Italian Renaissance
HIST 405	(3)	Topics in Intellectual History
HIST 411	(3)	Topics in African History
HIST 426	(3)	Topics: British Cultural History
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 585	(3)	Arab Women's Literature
LIBA 395	(3)	Individual Reading Course
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2
RELG 210	(3)	Jesus of Nazareth
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 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 30 credits as follows:

6 credits from the courses in List A

24 credits from the courses in List B

List A (6 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 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

List B (24 credits)

Students in the History and Culture stream may choose from any course at the 200 level or above in the following departments and programs: History (HIST), Political Science (POLI), Sociology (SOCI) and Art History and Communication Studies (labelled COMS).

Students in this stream may also choose a maximum of 9 credits from the following list:

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 338	(3)	Indigenous Studies of Anthropology
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
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
ITAL 295	(3)	Italian Cultural Studies
ITAL 356	(3)	Medieval Discourses on Love
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 400	(3)	Italian Regional Identities
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 361	(3)	The Shtetl: 1500-1897

JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
LIBA 395	(3)	Individual Reading Course
LLCU 212	(3)	Understanding Digital and Social Media
LLCU 250	(3)	History and Future of the Book
LLCU 311	(3)	Digital Studies/Citizenry
RELG 201	(3)	Religions of the Ancient Near East
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 334	(3)	Theology of History
RELG 338	(3)	Women and the Christian Tradition
RELG 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
POLI 231	(3)	Introduction to Political Theory
RELG 201	(3)	Religions of the Ancient Near East

RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 321	(3)	Western Intellectual Tradition
RELG 334	(3)	Theology of History
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 373	(3)	Christian Ethics of Love
RELG 380	(3)	Religion, Philosophy, Modernity

List B (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
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400*	(3)	Environmental Thought
GERM 355	(3)	Nietzsche and Wagner
GERM 367	(3)	Topics in German Thought
HIST 320	(3)	Themes in Intellectual History
HIST 350	(3)	Science and the Enlightenment
HIST 440	(3)	Fiction and History
ITAL 355	(3)	Dante and the Middle Ages
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.

3.102254 Bachelor of Arts (B.A.) - Honours Liberal Arts (60 credits)

The Honours in Liberal Arts exposes students to texts from and histories of a suitably wide range of cultures and societies. Students are able to choose among three intellectual streams: literature and the arts (including theatre and architecture); history, culture and society; and philosophy and religion. Students in each stream must satisfy a language requirement as well as distribution requirements in relation to minimum number of 300/400+ level courses; maximum number of courses in one discipline; geographical areas and historical periods.

Honours student must maintain a program GPA of 3.30 and an overall GPA of 3.00.

All students in the Honours Liberal Arts are also required to complete a Minor Concentration in a language program (other than English). Students who are native speakers of a language other than English are strongly encouraged to fulfill this requirement in a third language.

The approved language minors are:

Minor Concentration in Classics (Language Stream)

Minor Concentration in East Asian Language and Literature or Supplementary East Asian Language

Minor Concentration in German Language

Minor Concentration in Hispanic Languages
 Minor Concentration in Italian Studies
 Minor Concentration in Jewish Studies
 Minor Concentration in French Language and Literature – French Language
 Minor Concentration in World Islamic & Middle East Studies
 Minor Concentration in Russian
 Minor Concentration in Scriptural Languages

Required Courses (9 credits)

Honours Liberal Arts students are required to take three courses designed to help them reflect on the contemporary significance of a Liberal Arts education and on their experience in the Liberal Arts program.

LIBA 202	(3)	Introduction to Liberal Arts
LIBA 402	(3)	Seminar in Liberal Arts
LIBA 490	(3)	Honours Thesis

Complementary Courses (51 credits)

Honours students must complete 51 credits in one of the three specialized streams set out below.

The distribution requirements for all streams are the following:

- (a) at least 9 credits from the 200-level introductory courses within one stream;
- (b) at least 24 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 21 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 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
FREN 252	(3)	Littérature québécoise
GERM 259	(3)	Introduction to German Literature 1
HISP 225	(3)	Hispanic Civilization 1
HISP 241	(3)	Survey of Spanish Literature and Culture 1
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ITAL 230	(3)	Understanding Italy
ITAL 295	(3)	Italian Cultural Studies
LLCU 220	(3)	Introduction to Literary Analysis
RELG 203	(3)	Bible and Western Culture
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

Music: up to 9 credits of Music courses (labelled MUAR) can be selected in consultation with the Program Director.

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,” “Languages and Literatures – Hebrew” and “Language and Literature – Yiddish.”

Students in this stream may also choose a maximum of 12 credits from the following list:

AFRI 401	(3)	Swahili Language and Culture
ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARTH 352	(3)	Feminism in Art and Art History
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema

EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 362	(3)	Japanese Cinema
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 569	(3)	Advanced Topics: Japanese Literature
HIST 345	(3)	History of Italian Renaissance
HIST 405	(3)	Topics in Intellectual History
HIST 411	(3)	Topics in African History
HIST 426	(3)	Topics: British Cultural History
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 585	(3)	Arab Women's Literature
LIBA 395	(3)	Individual Reading Course
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2
RELG 210	(3)	Jesus of Nazareth
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 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
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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 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 338	(3)	Indigenous Studies of Anthropology
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
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
ITAL 295	(3)	Italian Cultural Studies
ITAL 356	(3)	Medieval Discourses on Love
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 371	(3)	The Italian Baroque

ITAL 400	(3)	Italian Regional Identities
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
LIBA 395	(3)	Individual Reading Course
LLCU 212	(3)	Understanding Digital and Social Media
LLCU 250	(3)	History and Future of the Book
LLCU 311	(3)	Digital Studies/Citizenry
RELG 201	(3)	Religions of the Ancient Near East
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 334	(3)	Theology of History
RELG 338	(3)	Women and the Christian Tradition
RELG 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
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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
POLI 231	(3)	Introduction to Political Theory
RELG 201	(3)	Religions of the Ancient Near East
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 321	(3)	Western Intellectual Tradition
RELG 334	(3)	Theology of History
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 373	(3)	Christian Ethics of Love
RELG 380	(3)	Religion, Philosophy, Modernity

List B (42 credits)

Students in the Philosophy and Religion stream may choose from:

- any course (other than a course dedicated to teaching a language) at the 200 level or above in the following departments and programs: Philosophy (PHIL), Religious Studies (RELG), Catholic Studies (CATH), Islamic Studies (ISLA), and Jewish Studies (JWST); and

- any course in Political Science (POLI) listed in the eCalendar under the heading "Political Theory."

Students in this stream may also choose a maximum of 12 credits from the following list:

ANTH 209	(3)	Anthropology of Religion
ANTH 318	(3)	Globalization and Religion
CLAS 203	(3)	Greek Mythology
CLAS 303	(3)	Ancient Greek Religion
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400*	(3)	Environmental Thought
GERM 355	(3)	Nietzsche and Wagner
GERM 367	(3)	Topics in German Thought
HIST 320	(3)	Themes in Intellectual History
HIST 350	(3)	Science and the Enlightenment
HIST 440	(3)	Fiction and History
ITAL 355	(3)	Dante and the Middle Ages
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.

3.10.22.6 Medieval Studies

3.10.22.6.1 About the 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 mcgill.ca/medieval and from the Program Director:

Prof. Michael Van Dussen; 514-398-4400 ext 09371 michael.vandussen@mcgill.ca

3.10.22.6.2 Medieval Studies Faculty

Program Committee Chair

M. Van Dussen

Program Committee

C. Hilsdale; T.C. Bruce.

3.10.22.6.3 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
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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	(0)	
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English
ENGL 553	(3)	Old English Literature

* Note: When content relates to Medieval Studies.

History and Classical Studies

CLAS 419	(3)	Advanced Latin: Post-Classical
HIST 194	(3)	FYS: Jewish Concepts of Others
HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 356	(3)	Medicine in the Medieval West
HIST 358	(3)	China's Middle Empires
HIST 380	(3)	The Medieval Mediterranean
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

Islamic Studies

ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 516	(3)	Medieval Islam, 13th-15th Century

Jewish Studies

JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 337	(3)	Jewish Philosophy and Thought 1

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	()	

Religious Studies

RELG 322	(3)	Church and Empire to 1300
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RELG 532

(3)

History of Christian Thought I

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 multidisciplinaire 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 les 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 mcgill.ca/qcst ou contactez

Directeur: Professeur Daniel Béland (Science politique)

Bureau : Pavillon Ferrier, 840 avenue du Docteur-Penfield, Ferrier 102A

Courriel : daniel.beland@mcgill.ca | Tel: 514-398-6441

Coordonnateur scientifique des études québécoises: Stéphan Gervais

Bureau: Pavillon Ferrier, 840 avenue du Docteur-Penfield, Ferrier 102E

Courriel: stephan.gervais@mcgill.ca | Tel: 514-398-3960

Administratrice des affaires étudiantes, études interdisciplinaires : Sonia Masand

Bureau: 853 rue Sherbrooke Ouest, Dawson Hall 115

Envoyer un courriel pour un rendez-vous interdisciplinary.arts@mcgill.ca | Tel: 514-398-1380

3.10.22.7.2 About Quebec Studies

The Quebec Studies program is intended to stimulate interdisciplinary studies and exchanges centering on Quebec society.

With departmental support, a minor concentration is offered, consisting of a coherent series of courses providing an interdisciplinary perspective on Quebec society in a Canadian and international context.

Except for the general courses 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), and the seminar Contemporary Issues in Quebec (QCST 440), courses included in the Minor Concentration are the responsibility of the various departments. To obtain a complete description of these courses and the admission requirements (where applicable), students should read the relevant sections of the eCalendar and, if necessary, consult with the departments concerned, bearing in mind that not all courses are available in any given year. Please take note that an adviser or a director of a program can recommend registration in a course without imposing this choice. The final decision belongs to the student if the student has successfully completed the course prerequisites.

The title of each course indicates whether it is given in French or English, but term papers and exams can be written in either of these two languages (except in the *Département des littératures de langue française, de traduction et de création*, where French is mandatory).

Further information for new and returning students is available at mcgill.ca/qcst or by contacting:

Program Director: Professor Daniel Béland (Political Science)

Office: Ferrier Building, 840 Dr. Penfield Avenue, Room 102A

Email: daniel.beland@mcgill.ca | Tel: 514-398-6441

Scientific Coordinator: Mr. Stéphan Gervais

Office: Ferrier Building, 840 Dr Penfield Avenue Room 102E

Email: stephan.gervais@mcgill.ca | Tel: 514-398-3960

Student Affairs Administrator, Interdisciplinary Studies: Ms. Sonia Masand

Office: 853 Sherbrooke Street West, Dawson Hall, Room 115

Email: interdisciplinary.arts@mcgill.ca for an advising appointment | Tel: 514-398-1380

3.10.22.7.3 Quebec Studies/Études sur le Québec (QCST) Faculty**Director**Daniel Béland (*Department of Political Science*)**Coordinator**Stéphan Gervais (*Quebec Studies*)**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 engagement communautaire (18 credits)**

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 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 doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 9 credits, 6 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 6 of the 9 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

FREN 252	(3)	Littérature québécoise
POLI 226	(3)	La vie politique québécoise
POLI 336	(3)	Le Québec et le Canada
QCST 336	(6)	Quebec Studies Summer Seminar

Anthropology / Anthropologie

ANTH 436	(3)	North American Native Peoples
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Art History and Communication Studies

COMS 510 (3) Canadian Broadcasting Policy

Canadian Studies / Études sur le Canada

CANS 200 (3) Understanding Canada
 CANS 301 (3) Topics in Canadian Studies 2
 CANS 306 (3) Topics in Indigenous Public Affairs
 CANS 405 (3) Canadian Studies Seminar 5

English / Anglais

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

SOCI 230 (3) Sociology of Ethnic Relations

SOCI 475 (3) Canadian Ethnic Studies Seminar

3.10.22.8 Social Entrepreneurship

3.10.22.8.1 About Social Entrepreneurship Program

Students who pursue this program will acquire the skills necessary to take on issues of social responsibility, environmental sustainability, and the know-how to develop products and services to alleviate social problems. The minor concentration will impart a comprehensive set of management skills through targeted coursework in the Faculty of Management, complemented by an array of related courses in the Faculty of Arts.

The minor concentration 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 Minor Concentration in Social Entrepreneurship after completing at least one year of academic studies at the university.

Further information is available at mcgill.ca/socent.

3.10.22.8.2 Social Entrepreneurship Faculty

Program Committee Chair

O. Dyens

Program Committee

F. Amodio; P. Perez-Aleman; I. Vaccaro.

3.10.22.8.3 Bachelor of Arts (B.A.) - Minor Concentration Social Entrepreneurship (18 credits)

This Minor Concentration is a collaboration of the Faculty of Arts and the Desautels Faculty of Management and is designed to provide Arts (B.A.) students with an understanding of how to conceptualize, develop, and manage successful new ventures—including social enterprises, not-for-profit organizations, and cooperatives. The program covers the essentials of management and is interdisciplinary and integrative. Many courses in the Minor Concentration will address a mix of students from across multiple McGill faculties.

This Minor Concentration is restricted to students who have completed one year of university studies with a minimum CGPA of 3.0. The Minor Concentration Social Entrepreneurship has limited enrolment; students should contact the Program Director to apply for admission.

Students in this Minor Concentration are not permitted to take the Joint Honours Economics/Finance, Joint Honours Economics/Accounting or Desautels Minors in Management, Marketing, Finance, or Operations 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 438	(3)	Social Entrepreneurship and Innovation

Complementary Courses (6 credits)

3 - 6 credits from the following:

MGPO 364	(3)	Entrepreneurship in Practice
SENT 499	(3)	Internship: Social Entrepreneurship

0 - 3 credits from the following:

COMS 355	(3)	Media Governance
COMS 492	(3)	Power, Difference and Justice
ECON 310	(3)	Introduction to Behavioural Economics

ECON 447	(3)	Economics of Information and Uncertainty
HIST 312	(3)	History of Consumption in Canada
LLCU 212	(3)	Understanding Digital and Social Media
LLCU 311	(3)	Digital Studies/Citizenry
PHIL 237	(3)	Contemporary Moral Issues
POLI 318	(3)	Comparative Local Government
POLI 473	(3)	Democracy and the Market
SOCI 307	(3)	Globalization
SOCI 386	(3)	Contemporary Social Movements

3.10.22.9 World Cinemas (FILM)

3.10.22.9.1 About World Cinemas Minor Concentration

The World Cinemas program was established to coordinate faculty expertise and student interest in different national and international cinematic traditions. It offers courses across various departments, primarily in Arts, in order to train students to approach film studies from a variety of traditions and locations, while introducing them to different modes of cinematic practice and production from around the world.

Further information for new and returning students is available at mcgill.ca/worldcinemas.

3.10.22.9.2 World Cinemas (FILM) Faculty

Program Committee Chair

Ara Osterweil (*English*)

Program Committee

A. Farah (*Département des littératures de langue française, de traduction et de création*); Y. Furuhashi (*East Asian Studies*); D. Nystrom (*English*); I. Türeli (*School of Architecture*).

3.10.22.9.3 Bachelor of Arts (B.A.) - Minor Concentration World Cinemas (18 credits)

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

* Take either EAST 279 or LLCU 279.

EAST 279*	(3)	Introduction to Film History
ENGL 277	(3)	Introduction to Film Studies
LLCU 279*	(3)	Introduction to Film History

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

CANS 300	(3)	Topics in Canadian Studies I
EAST 353	(3)	Approaches to Chinese Cinema
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 368	(3)	Asian Genre Cinemas
EAST 369	(3)	Gender and Sexuality in Asian Media

EAST 454	(3)	Topics: Chinese Cinema
EAST 467	(3)	Topics: Japanese Cinema
EAST 564	(3)	Structures of Modernity: Asia
ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 354	(3)	Sexuality and Representation
ENGL 363	(3)	Studies in the History of Film 3
ENGL 366	(3)	Film Genre
ENGL 374	(3)	Film Movement or Period
ENGL 379	(3)	Film Theory
ENGL 381	(3)	A Film-Maker 1
ENGL 382	(3)	International Cinema 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 393	(3)	Canadian Cinema
ENGL 450	(3)	Film Aesthetics
ENGL 451	(3)	A Period in Cinema
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 479	(3)	Philosophy of Film
ENGL 480	(3)	Studies in History of Film 1
ENGL 481	(3)	A Film-Maker 2
ENGL 482	(3)	International Cinema 2
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	()	
ENGL 492	(3)	Image and Text
ENGL 585	(3)	Cultural Studies: Film
FILM 499	(3)	Internship: World Cinemas
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
GERM 357	(3)	German Culture in European Context
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
GERM 373	(3)	Weimar German Cinema
HISP 340	(3)	Latin American Cinema
HISP 341	(3)	Spanish Cinema
HIST 435	(3)	Topics in South Asian History
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy

ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film
LLCU 300	(3)	Cinema and the Visual
MUHL 330	(3)	Music and Film
PLAI 500	(3)	Advanced Interdisciplinary Humanities Seminar
RUSS 213	(3)	Introduction to Soviet Film
RUSS 395	(3)	Soviet Cinema: Art and Politics

3.10.23 International Development

3.10.23.1 Location

Institute for the Study of International Development
 3610 McTavish Street, 2nd Floor
 Montreal QC H3A 1Y2
 Telephone: 514-398-4804
 Email: ids@mcgill.ca
 Website: mcgill.ca/isid

Adviser: Lisa Stanischewski, lisa.stanischewski@mcgill.ca

3.10.23.2 About International Development

McGill's Institute for the Study of International Development (ISID) works to improve people's lives through cutting edge research, training, and communication that accelerates global sustainable development. It does this by educating successive generations of socially responsible and politically engaged students, developing intellectual capacity, and conducting leading edge research that is relevant for policymaking. Equally important, ISID is committed to connecting our teaching and research with the decision makers and principal actors tackling today's most pressing issues by supporting and engaging with NGOs, governments, community organizations, private sector actors, and civil society more broadly, working to increase our collective capacity for achieving sustainable development that will lead to economic and social improvements across the globe.

3.10.23.3 International Development Studies (INTD)

3.10.23.3.1 About International Development Studies

The International Development Studies (IDS) program is designed for those students who wish to take advantage of the resources available at McGill to pursue an interdisciplinary program of study focusing on the problems of the developing countries.

Most courses above the 200 level have prerequisites. Although these may be waived by instructors in some cases, students are urged to confirm their eligibility for courses when they prepare their programs of study. Note that certain courses (especially those in Management) may not be available owing to space limitations. Students should check the [Class Schedule](#) on Minerva for confirmation as to which term courses are offered.

Further information for new and returning students is available at mcgill.ca/isid/teaching-programs/undergraduate/intd.

3.10.23.3.2 International Development Studies (INTD) Faculty

Program Chair

Erik Kuhonta

Program Adviser

Lisa Stanischewski

Program Committee

Diana Allan; Francesco Amodio; Manuel Balan; Megan Bradley; Oliver Coomes; Franque Grimard; Sonia Laszlo; Catherine Lu; Hugo Melgar-Quiñonez; Paola Perez-Aleman; Poulami Roychowdhury; Jon Unruh; Juan Wang; Yann le Polain de Waroux.

Faculty Lecturer

Kazue Takamura

3.10.23.33 Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)

The B.A.; Minor Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, and key development-related themes.

At least 9 of the 18 credits must be at the 300 level or above.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (9 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development

Complementary Courses (9 credits)**Thematic**

9 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433* (3) Topics in International Business 1

* When topic is relevant to IDS.

Canadian Studies

CANS 315 (3) Indigenous Art and Culture

East Asian Studies

EAST 211 (3) Introduction: East Asian Culture: China

EAST 213 (3) Introduction: East Asian Culture: Korea

Economics

ECON 205 (3) An Introduction to Political Economy

ECON 209 (3) Macroeconomic Analysis and Applications

ECON 223 (3) Political Economy of Trade Policy

ECON 314 (3) Economic Development 2

ECON 326 (3) Ecological Economics

ECON 336 (3) The Chinese Economy

ECON 347 (3) Economics of Climate Change

ECON 411 (3) Economic Development: A World Area

ECON 416 (3) Topics in Economic Development 2

ECON 473 (3) Income Distribution

English

ENGL 440 (3) First Nations and Inuit Literature and Media

Geography

GEOG 210 (3) Global Places and Peoples

GEOG 216 (3) Geography of the World Economy

GEOG 221 (3) Environment and Health

GEOG 302 (3) Environmental Management 1

GEOG 303 (3) Health Geography

GEOG 310 (3) Development and Livelihoods

GEOG 325 (3) New Master-Planned Cities

GEOG 403 (3) Global Health and Environmental Change

GEOG 408 (3) Geography of Development

GEOG 410 (3) Geography of Underdevelopment: Current Problems

GEOG 425 (3) Southeast Asia Urban Field Studies

GEOG 510 (3) Humid Tropical Environments

History

Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 208	(3)	Introduction to East Asian History
HIST 209	(3)	Introduction to South Asian History
HIST 213	(3)	World History, 600-2000
HIST 218	(3)	Modern East Asian History
HIST 223	(3)	Indigenous Peoples and Empires
HIST 309	(3)	History of Latin America to 1825
HIST 317	(3)	Themes in Indian Ocean World History
HIST 333	(3)	Indigenous Peoples and French
HIST 338	(3)	Twentieth-Century China
HIST 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam

ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace

POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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3.10.23.34 Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)

The B.A.; Major Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Course Selection Guidelines for the Overall Program

1. At least 18 of the 36 credits must be at the 300 level or above.
2. At least 9 credits must be from INTD courses.
3. Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (12 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development
INTD 497	(3)	Advanced Topics in International Development

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic

12-15 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440 (3) First Nations and Inuit Literature and Media

Geography

GEOG 216 (3) Geography of the World Economy
 GEOG 221 (3) Environment and Health
 GEOG 302 (3) Environmental Management 1
 GEOG 303 (3) Health Geography
 GEOG 310 (3) Development and Livelihoods
 GEOG 325 (3) New Master-Planned Cities
 GEOG 403 (3) Global Health and Environmental Change
 GEOG 408 (3) Geography of Development
 GEOG 410 (3) Geography of Underdevelopment: Current Problems
 GEOG 425 (3) Southeast Asia Urban Field Studies
 GEOG 510 (3) Humid Tropical Environments

History

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 340 (3) History of Modern Egypt
 HIST 341 (3) Themes in South Asian History
 HIST 360 (3) Latin America since 1825
 HIST 361 (3) Topics in Canadian Regional History
 HIST 363 (3) Canada 1870-1914
 HIST 366 (3) Themes in Latin American History
 HIST 382 (3) History of South Africa
 HIST 408 (3) Colonialism and Native Peoples
 HIST 409 (3) Topics in Latin American History
 HIST 419 (3) Central America
 HIST 528 (3) Indian Ocean World Slave Trade

International Development Studies

INTD 350 (3) Culture and Development

INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development

SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods

3-6 credits from the following: *

Anthropology

ANTH 358	(3)	The Process of Anthropological Research
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Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

3.10.23.35 Bachelor of Arts (B.A.) - Honours International Development Studies (57 credits)

The B.A.; Honours in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Honours students must maintain a CGPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. At least 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.
2. At least 12 credits must be from INTD courses.

3. Students cannot take more than 18 credits in any discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (12 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development
INTD 498	(3)	Honours Seminar in International Development

Complementary Courses (45 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic

30-33 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion

ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1

GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

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 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project

INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 497	(3)	Advanced Topics in International Development
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society

SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods

6-9 credits from the following: *

Anthropology

ANTH 358	(3)	The Process of Anthropological Research
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Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

3.10.23.36 Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)

The B.A.; Joint Honours - International Development Studies component focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable).

Honours students must maintain a CGPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. At least 18 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.

2. At least 12 credits must be from INTD courses.

3. Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

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 (12 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development
INTD 498	(3)	Honours Seminar in International Development

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic (12 credits)

12 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology

ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 216	(3)	Geography of the World Economy
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GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

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 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development

INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 497	(3)	Advanced Topics in International Development
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development

SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods (6 credits)

6 credits from the following:*

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

Anthropology

ANTH 358	(3)	The Process of Anthropological Research
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Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

3.10.24 Islamic Studies (ISLA)

Please see [section 3.10.24.1: African Studies \(AFRI\)](#) or [section 3.10.24.2: World Islamic and Middle East Studies \(ISLA\)](#) for more information.

3.10.24.1 African Studies (AFRI)

3.10.24.1.1 About African Studies

The African Studies program was established in 1969 and was the first of its kind in Canada. It offers interdisciplinary courses leading to a minor or major concentration for students seeking to acquire a deeper understanding of the African continent and its diverse peoples. Students will acquire an appreciation of the contributions of Africa to world culture and civilization, and an awareness of the continent's current struggle to achieve development.

Further information for new and returning students is available at mcgill.ca/islamicstudies/undergraduate/african-studies.

3.10.24.1.2 African Studies (AFRI) Faculty

Program Chair

K. Medani – *Political Science*

Program Committee

G. Campbell – *History and Classical Studies*; M. Diouf – *Langue et littérature françaises*; M. Hartman – *Institute of Islamic Studies*; M. Popescu – *English*; J. Unruh – *Geography*.

3.10.24.1.3 Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with 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)	Seminar: African History

HIST 579D2 (3) Seminar: African History

Anthropology

ANTH 212 (3) Anthropology of Development
 ANTH 301 (3) Nomadic Pastoralists
 ANTH 322 (3) Social Change in Modern Africa
 ANTH 411 (3) Primate Studies and Conservation
 ANTH 416 (3) Environment/Development: Africa

Economics

ECON 208 (3) Microeconomic Analysis and Applications
 ECON 313 (3) Economic Development 1
 ECON 416 (3) Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320* (3) Postcolonial Literature
 ENGL 352* (3) Theories of Difference
 ENGL 421 (3) African Literature

Geography

GEOG 216 (3) Geography of the World Economy
 GEOG 403 (3) Global Health and Environmental Change
 GEOG 404 (3) Environmental Management 2
 GEOG 408 (3) Geography of Development
 GEOG 410 (3) Geography of Underdevelopment: Current Problems
 GEOG 416 (3) Africa South of the Sahara

History

HIST 200 (3) Introduction to African History
 HIST 201 (3) Modern African History
 HIST 381 (3) Colonial Africa
 HIST 382 (3) History of South Africa
 HIST 498 (3) Independent Research
 HIST 528 (3) Indian Ocean World Slave Trade

Islamic Studies

ISLA 221D1 (4.5) Introductory Arabic
 ISLA 221D2 (4.5) Introductory Arabic
 ISLA 360 (3) Islam and Politics
 ISLA 410 (3) History: Middle-East 1798-1918

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

3.10.24.14 Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

9 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1

AFRI 499	(3)	Arts Internships: African Studies
HIST 579D1	(3)	Seminar: African History
HIST 579D2	(3)	Seminar: African History

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa
HIST 382	(3)	History of South Africa
HIST 498	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic

ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918

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

3.10.24.15 Bachelor of Arts (B.A.) - Joint Honours Component African Studies (36 credits)

The Joint Honours program in African Studies provides students with an interdisciplinary approach to the study of the African continent.

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.

At least 9 of the 36 credits must be at the 400 level or above.

Required Courses (9 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 480*	(3)	Honours Thesis
AFRI 598	(3)	Research Seminar in African Studies

* Honours Thesis course must be taken for the AFRI Joint Honours component. Students must meet the specific requirements regarding Thesis credits of their second program in addition to the AFRI 480 Honours Thesis.

Complementary Courses (27 credits)

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

18 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
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AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 355	(3)	Theories of Culture and Society
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa
ANTH 451	(3)	Research in Society and Development in Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 314	(3)	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 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)	British Colonies: Africa and Asia

HIST 498	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918

Political Science

* Note: Course is counted only when African materials are taught. Admission to this course will be subject to the Political Science departmental requirements and approval of the Departmental Honours Adviser. Priority will be given to Political Science students.

POLI 227	(3)	Developing Areas/Introduction
POLI 324	(3)	Developing Areas/Africa
POLI 522*	(3)	Seminar: Developing Areas

Sociology

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 484	(3)	Emerging Democratic States
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 550	(3)	Developing Societies

3.1024.1.6 African Studies (AFRI) Related Programs and Study Semesters

3.1024.1.6.1 Africa Field Study Semester

See [Study Abroad & Field Studies](#) > *Undergraduate* > [section 12.2.1.1: Africa Field Study Semester](#) for details of the 15-credit interdisciplinary AFSS.

3.10.24.2 World Islamic and Middle East Studies (ISLA)

3.10.24.2.1 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
 Website: mcgill.ca/islamicstudies

3.10.24.2.2 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 learn about the complexity and variety of Muslim societies and cultures across the world, paying attention to regional specificities but also becoming aware of past and present global links. With solid grounding in language training (Arabic, Persian, Turkish, or Urdu), students take courses on history, law, philosophy, art, literature, political science, history of science in Islamic societies, and anthropology, combining knowledge about the contemporary Islamic world and the traditions that are important for understanding it.

The Institute of Islamic Studies offers:

- major and minor concentrations;

- honours and joint honours programs for students wishing to pursue more in-depth studies; and
- language minors in Arabic, Persian, Turkish, and Urdu for students interested in language training.

To register for a WIMES program, you must have been offered admission into a bachelor's program at McGill; for more information, please refer to mcgill.ca/applying.

3.10.24.23 World Islamic and Middle East Studies (ISLA) Faculty

Director

Michelle L. Hartman

Emeritus and Retired Professors

Emeritus: Sajida S. Alvi; Hermann A. Landolt; F. Jamil Ragep;

Retired: Eric Ormsby; A. Üner Turgay;

Professors

Rula J. Abisaab; Michelle L. Hartman; Laila Parsons; Robert Wisnovsky.

Associate Professors

Malek Abisaab, *joint appt. with History*; Pasha M. Khan; Prashant Keshavmurthy; Setrag Manoukian, *joint appt. with Anthropology*; Khalid Medani, *joint appt. with Political Science*.

Assistant Professors

Sara Abdel-Latif; Aslıhan Gürbüz.

Senior Faculty Lecturers

Shokry Gohar.

Faculty Lecturer

David Nancekivell.

3.10.24.24 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 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2
ISLA 526	(3)	Colloquial Arabic

3.10.24.25 Bachelor of Arts (B.A.) - Minor Concentration Persian Language (18 credits)

The Minor Concentration in Persian Language provides students with comprehensive training in listening, speaking, reading, and writing in Persian.

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 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

3.102426 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 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

3.102427 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 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2
ISLA 555	(3)	Urdu Poetry

3.10.2428 Bachelor of Arts (B.A.) - Minor Concentration World Islamic & Middle East Studies (18 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the languages, textual traditions, and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits at the 100-/200 level, in non-language ISLA courses;

6 credits at the 300 level, in non-language ISLA courses;

9 credits at any level. If non-language courses are selected, no more than 6 credits overall at the 100-200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

ISLA 100/200-Level

3 credits from:

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi

ISLA 300 Level and Higher

6 credits from:

ISLA 310	(3)	Women in Islam
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 355	(3)	Modern History of the Middle East

ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic

ISLA Courses

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 499	(3)	World Islamic and Middle East Studies Internship
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 555	(3)	Urdu Poetry

ISLA 585 (3) Arab Women's Literature

Non-ISLA Courses

ANTH 327 (3) Anthropology of South Asia
 HIST 240 (3) Modern History of Islamic Movements
 HIST 341 (3) Themes in South Asian History
 HIST 435 (3) Topics in South Asian History
 HIST 591D1 (3) Modern Middle East History
 HIST 591D2 (3) Modern Middle East History
 JWST 261 (3) History of Jewish Philosophy and Thought
 JWST 323 (3) The Israeli Novel
 JWST 338 (3) Jewish Philosophy and Thought 2
 JWST 366 (3) History of Zionism
 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 307 (3) Bible, Quran and Interpretations
 RELG 309 (3) World Religions and Cultures They Create
 RELG 573 (3) Religions in Global Society

3.10.24.29 Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (36 credits)

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21-24 credits (21 if Introductory Arabic has been chosen), of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits of 100-/200-level non-language ISLA courses;

6 credits of 300-level non-language ISLA courses;

6 credits of 400-/500-level non-language ISLA courses;

6-9 credits at any level, including more language courses, but no more than 6 credits overall at the 100/200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Languages (12-15 credits)

Arabic

ISLA 221D1 (4.5) Introductory Arabic
 ISLA 221D2 (4.5) Introductory Arabic
 ISLA 322 (6) Lower Intermediate Arabic
 ISLA 322D1 (3) Lower Intermediate Arabic
 ISLA 322D2 (3) Lower Intermediate Arabic

ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Persian

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Turkish

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Urdu

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

ISLA 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
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ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

6 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
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
HIST 240	(3)	Modern History of Islamic Movements
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History

HIST 591D2	(3)	Modern Middle East History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
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 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

31024210 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 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Persian

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Turkish

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Urdu

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

ISLA 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 315	(3)	Ottoman State and Society to 1839
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

9 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 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

9-12 credits at any level, including ISLA 499, or more language courses (from the language lists above), 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.

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
HIST 240	(3)	Modern History of Islamic Movements
HIST 435	(3)	Topics in South Asian History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
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 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

31024211 Bachelor of Arts (B.A.) - Joint Honours Component World Islamic & Middle East Studies (36 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, 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 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Persian

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Turkish

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Urdu

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi

ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

ISLA 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 315	(3)	Ottoman State and Society to 1839
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

3 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century

ISLA 526	(3)	Colloquial Arabic
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

3-6 credits at any level, including ISLA 499, or more language courses (from the language lists above), but no more than 6 credits overall of at the 200 level. Students may fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
HIST 240	(3)	Modern History of Islamic Movements
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
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 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

3.10.25 Jewish Studies (JWST)

3.10.25.1 Location

Leacock Building
 855 Sherbrooke Street West, 7th floor
 Montreal QC H3A 2T7
 Telephone: 514-398-2844

Fax: 514-398-7476

Website: mcgill.ca/jewishstudies

3.10.25.2 About Jewish Studies

The Department of Jewish Studies, established in 1968, offers an interdisciplinary approach to the study of Judaica. It includes:

- a selection of courses that will enable students not taking a concentration in Jewish Studies to broaden their knowledge of Jewish history and culture;
- elementary, intermediate, and advanced courses in Jewish languages – Hebrew, Yiddish, and Aramaic. In the case of the first two, this includes attention to both spoken idiom and written texts;
- specialized courses in the various disciplines that comprise Jewish Studies for students who have specific academic interests;
- a minor concentration for students who wish to add competence in Jewish Studies to their major field of study;
- a comprehensive major concentration, and an honours program culminating in advanced seminars and tutorials for students contemplating careers in the various fields of Judaica. The Honours program in Jewish Studies will give students the necessary linguistic, textual, and bibliographical knowledge to enable them to pursue graduate work in Jewish Studies.

3.10.25.3 Jewish Studies Faculty

Chair

Autumn: Yael Halevi-Wise

Winter: Eric Caplan

Graduate Program Director

Christopher Silver

Undergraduate Program Director

Urszula Madej-Krupitski

Emeritus Professor

B. Barry Levy

Professors

David Aberbach; Carlos Fraenkel; Gershon Hundert.

Associate Professors

Eric Caplan; Yael Halevi-Wise; Lawrence Kaplan.

Assistant Professor

Urszula Madej-Krupitski; Christopher Silver.

Lecturers

Lea Fima; Yuri Vedenyapin.

Adjunct Professor

Daniel Kupfert Heller

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 Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 546	()	
JWST 548	()	
JWST 554	()	
JWST 571	()	
JWST 573	()	
JWST 575	()	
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	()	
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature

JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	

JWST 543	(0)	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	(0)	
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	(0)	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	(0)	
JWST 588	(0)	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	()	
JWST 333	()	
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	(0)
JWST 542	(0)
JWST 543	(0)
JWST 576	(0)

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

3.10.25.5 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	(0)	
JWST 329	(0)	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	(0)	
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew

JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 546	()	
JWST 548	()	
JWST 554	()	
JWST 571	()	
JWST 573	()	
JWST 575	()	
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897

JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	()	
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1

JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	
JWST 543	()	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	()	
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	()	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1

JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	()	
JWST 588	()	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	(0)	
JWST 333	(0)	
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	(0)	
JWST 542	(0)	
JWST 543	(0)	
JWST 576	(0)	

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 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

3.10.25.6 Bachelor of Arts (B.A.) - Honours Jewish Studies (60 credits)

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 (51 credits)

51 credits selected as follows:

Jewish History

6 credits of courses on Jewish history.

One of:

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000

One of:

HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

Jewish Language

0-18 credits of a Jewish language. Each Honours student will complete at least one Jewish language at the advanced level of instruction. A student who can demonstrate competence in a Jewish language may be permitted to substitute other courses for all or part of the language requirement.

Hebrew language courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish language courses are found under the heading "Language and Literature - Yiddish."

Areas of Jewish Studies

27-45 credits of courses chosen to reflect progress to the advanced level in two of the areas of study: Biblical Studies, Rabbinic Studies, Literature (Hebrew, Yiddish), Jewish Thought, Jewish History, Modern Jewish Studies, and East European Studies.

Hebrew literature courses are found listed under the heading "Language and Literature - Hebrew," and Yiddish literature courses are found under the heading "Language and Literature - Yiddish".

Students should select their courses in consultation with a program adviser.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 546	()	
JWST 548	()	
JWST 554	()	
JWST 571	()	
JWST 573	()	
JWST 575	()	
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	()	
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics

JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	
JWST 543	()	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	()	
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	()	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature

JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	()	
JWST 588	()	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	(0)	
JWST 333	(0)	
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	(0)	
JWST 542	(0)	
JWST 543	(0)	
JWST 576	(0)	

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

3.10.25.7 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	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 546	()	
JWST 548	()	
JWST 554	()	
JWST 571	()	
JWST 573	()	
JWST 575	()	
JWST 581	(3)	Aramaic Language

RELG 307 (3) Bible, Quran and Interpretations

East European Studies

HIST 307 (3) Jews in Poland
 HIST 427 (3) The Hasidic Movement
 JWST 206 (3) Introduction to Yiddish Literature
 JWST 217 (3) Jewish Studies 3: 1000 - 2000
 JWST 240 (3) The Holocaust
 JWST 351 (3) Studies in Modern Jewish Literature
 JWST 361 (3) The Shtetl: 1500-1897
 JWST 365 (3) Modern Jewish Ideologies
 JWST 366 (3) History of Zionism
 JWST 381 (3) God and Devil in Modern Yiddish Literature
 JWST 383 (3) Holocaust Literature
 JWST 404 ()
 JWST 445 (3) The Poetry of Nationalism
 JWST 485 (3) Tutorial in Yiddish Literature
 JWST 486 (3) Tutorial in Yiddish Literature
 JWST 585 (3) Tutorial: Eastern European Studies 1
 JWST 586 (3) Tutorial: Eastern European Studies 2

Jewish History

HIST 207 (3) Jewish History: 400 B.C.E. to 1000
 HIST 219 (3) Jewish History: 1000 - 2000
 HIST 307 (3) Jews in Poland
 HIST 427 (3) The Hasidic Movement
 HIST 572D1 (3) Seminar in Jewish History
 HIST 572D2 (3) Seminar in Jewish History
 JWST 211 (3) Jewish Studies 1: Biblical Period
 JWST 216 (3) Jewish Studies 2: 400 B.C.E. - 1000
 JWST 217 (3) Jewish Studies 3: 1000 - 2000
 JWST 240 (3) The Holocaust
 JWST 306 (3) The American Jewish Community
 JWST 314 (3) Denominations in North American Judaism
 JWST 315 (3) Modern Liberal Jewish Thought
 JWST 361 (3) The Shtetl: 1500-1897
 JWST 365 (3) Modern Jewish Ideologies
 JWST 366 (3) History of Zionism

Jewish Thought

EDER 318 (3) Teaching the Jewish Liturgy
 HIST 207 (3) Jewish History: 400 B.C.E. to 1000

HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	
JWST 543	()	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	()	
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	()	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	()	
JWST 588	()	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	()	
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 576	()	

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 the Bible as well as in 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. Eric Caplan, at 514-398-6544;

- consulting [Faculty of Education > Undergraduate > Browse Academic Units & Programs > Department of Integrated Studies in Education > section 5.8.2.14: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Jewish Studies \(120 credits\)](#);
- consulting mcgill.ca/edu-jtp for further details.

3.10.26 Languages, Literatures, and Cultures (LLCU)

3.10.26.1 Location

Department of Languages, Literatures, and Cultures
 680 Sherbrooke Street West, Suite 425
 Montreal QC H3A 2M7
 Telephone: 514-398-3650
 Email: info.llcu@mcgill.ca
 Website: mcgill.ca/langlitcultures

3.10.26.2 About Languages, Literatures, and Cultures

The Department of Languages, Literatures, and Cultures is dedicated to fostering a critical understanding of European and Latin American cultures in a global context. To this end, we offer programs in:

- [section 3.10.26.3: European Literature and Culture](#)
- [section 3.10.26.4: German Studies](#)
- [section 3.10.26.5: Hispanic Studies](#)
- [section 3.10.26.6: Italian Studies](#)
- Latin American and Caribbean Studies
- Liberal Arts
- [section 3.10.26.7: Russian and Slavic Studies](#)

These programs immerse students in the study of specific languages, literatures, thought, cinemas, cultures, and national traditions while encouraging transnational approaches and cultural plurality. In addition, we offer a selection of courses that are not specific to just one language or culture, including film, eco-criticism, literary theory, book history, and digital humanities.

In terms of undergraduate studies, we seek to broaden students' liberal arts background. Our goal is to enable our undergraduates to develop communicative skills in at least one target language and to provide critical tools to understand the complexities of other cultural traditions. The skills acquired are invaluable for careers in business, government, the media, cultural and literary fields, and numerous other professions.

For a list of LLCU courses offered, [click here](#).

Graduate Studies

We are committed to international standards of excellence in graduate student training; our graduate programs in German, Hispanic, Italian, and Russian Studies offer a vibrant research environment combining the rigour of traditional philological inquiry with a range of other theoretical and methodological approaches, many of them informed and/or creatively challenged by broader transnational and interdisciplinary perspectives.

Students who envision graduate studies upon completion of the B.A. are strongly advised to pursue an honours or joint honours program (Honours students must submit their thesis by March 15). Although the Major and Minor concentrations form an important part of the Multi-track B.A. in Arts, this general degree does not provide the specialized training called for by most graduate programs in the humanities and social sciences.

Undergraduate Advising

Students may need to obtain Departmental approval to register for language courses and are strongly urged to consult with the Department for advice/approval of their program plans. A placement test is available and may be booked before the start of term with the Language Adviser of the respective area of study. Please see the *Program Advisors* section of our website at mcgill.ca/langlitcultures/contact.

Students may begin at the intermediate or advanced level in their first year if they have taken approved courses in high school, CEGEP, or through McGill Summer Studies. Please consult with our advisers for more information.

The Department of Languages, Literatures, and Cultures offers undergraduate programs and concentrations which permit students to pursue a variety of intellectual and pre-professional options.

3.10.26.3 European Literature and Culture

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.

Undergraduate Programs

Adviser: Stephanie Posthumus

680 Sherbrooke Street West, Room 331
Telephone: 514-398-4400, ext. 094801

- [section 3.10.26.8.1: Bachelor of Arts \(B.A.\) - Minor Concentration European Literature and Culture \(18 credits\)](#)

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 the debates of the 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: Tove Holmes
680 Sherbrooke Street West, Room 473
Telephone: 514-398-4400, ext. 094391

- [section 3.10.26.8.2: Bachelor of Arts \(B.A.\) - Minor Concentration German Language \(18 credits\)](#) (Expandable)
- [section 3.10.26.8.3: Bachelor of Arts \(B.A.\) - Minor Concentration German Studies \(18 credits\)](#)
- [section 3.10.26.8.4: Bachelor of Arts \(B.A.\) - Major Concentration German Studies \(36 credits\)](#)
- [section 3.10.26.8.5: Bachelor of Arts \(B.A.\) - Honours German Studies \(60 credits\)](#)
- [section 3.10.26.8.6: 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: Prof. José Jouve-Martin
680 Sherbrooke Street West, Room 379
Telephone: 514-398-4400, ext. 00371

- [section 3.10.26.8.7: Bachelor of Arts \(B.A.\) - Minor Concentration Hispanic Studies \(18 credits\)](#)
- [section 3.10.26.8.8: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies \(36 credits\)](#)
- [section 3.10.26.8.9: Bachelor of Arts \(B.A.\) - Honours Hispanic Studies \(60 credits\)](#)
- [section 3.10.26.8.10: Bachelor of Arts \(B.A.\) - Joint Honours Component Hispanic Studies \(36 credits\)](#)



Note: Advanced Placement (AP) credits and courses taken at other universities in Quebec will not be accredited toward the Minor.

3.10.26.6 Italian Studies

The Department of Languages, Literatures, and Cultures – Italian Studies has a mission to maintain the traditions and study of the great classics, as well as to provide a window on an increasingly complex and diverse contemporary Italian culture. It promotes the study of the Italian language through an excellent and rigorous language training program. Its undergraduate and graduate programs also offer courses in Italian literature, both in Italian and in English, as well as in Italian film. The Department periodically invites scholars specializing in contemporary politics, the Italian immigrant experience, and social change, enabling students to gain both a broader and more critical understanding of various aspects of Italian culture through contact with specialists in these areas.

Undergraduate Programs

Adviser: Eugenio Bolongaro
680 Sherbrooke, Room 443
Telephone: 514-398-4400, ext. 09898

- [section 3.10.26.8.11: Bachelor of Arts \(B.A.\) - Minor Concentration Italian Studies \(18 credits\)](#) (Expandable)
- [section 3.10.26.8.12: Bachelor of Arts \(B.A.\) - Major Concentration Italian Studies \(36 credits\)](#)
- [section 3.10.26.8.13: Bachelor of Arts \(B.A.\) - Honours Italian Studies \(54 credits\)](#)
- [section 3.10.26.8.14: Bachelor of Arts \(B.A.\) - Joint Honours Component Italian Studies \(36 credits\)](#)

3.10.26.7 Russian and Slavic Studies

In addition to offering the only full undergraduate and graduate programs (including M.A. and Ph.D.) in Quebec, the Department of Languages, Literatures, and Cultures – Russian and Slavic Studies continues to attract one of the largest student enrolments in North America. We are proud to have approximately 25 graduates each year from undergraduate programs, many of whom have received credit for courses taken in Russia during their studies. Due to expanding global links—both commercial and institutional—many opportunities are open to students with qualifications in Russian studies. Students may be interested in the organization of human society, comparative literature, and linguistics; Russian Studies are highly relevant to all of these.

Undergraduate Programs

Adviser: Daniel W. Pratt
680 Sherbrooke, Room 333
Telephone: 514-398-4400, ext. 094513

- [section 3.10.26.8.15: Bachelor of Arts \(B.A.\) - Minor Concentration Russian \(18 credits\)](#) (Expandable)
- [section 3.10.26.8.16: Bachelor of Arts \(B.A.\) - Minor Concentration Russian Culture \(18 credits\)](#)
- [section 3.10.26.8.17: Bachelor of Arts \(B.A.\) - Major Concentration Russian \(36 credits\)](#)
- [section 3.10.26.8.18: Bachelor of Arts \(B.A.\) - Honours Russian \(60 credits\)](#)
- [section 3.10.26.8.19: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 credits\)](#)

3.10.26.8 Languages, Literatures, and Cultures Faculty

Chair

Eugenio Bolongaro

Directors of Undergraduate Studies/Advisers

José R. Jouve-Martin (*Hispanic Studies*)

Eugenio Bolongaro (*Italian Studies*)

Daniel W. Pratt (*Russian Studies*)

Stephanie Posthumus (*European Literature and Culture*)

Tove Holmes (*German Studies*)

Katherine Zien (*Latin American and Caribbean Studies*)

Matteo Soranzo (*Liberal Arts*)

Directors of Graduate Studies

Karen Bauer (*German Studies*)

Laura Beraha (*Russian Studies*)

Matteo Soranzo (*Italian Studies*)

Jesus Perez-Magallon (*Hispanic Studies*)

Emeritus Professors

P.M. Daly; K.M. Sibbald; Pamela D. Stewart.

Professors

K. Bauer; J.R. Juvé-Martin; L. Parts; J. Pérez-Magallón; P. Peters; A. Piper.

Associate Professors

L. Beraha; E. Bolongaro; A. Holmes; T. Holmes; F. Macchi; S. Posthumus; C. Raynor; M. Soranzo.

Assistant Professors

D. Pratt; D. Schwartz.

Faculty Lecturers

Sandra Barriaes-Bouche; Lucia Chamanadjian; Cristiana Furlan; Anny Guimont; Maria Ivanova; Zora Kadrybekova; Sun-Young Kim; Maria-Teresa Mascaro; Maria Karleen Morrison; Anna Maria Tumino.

3.10.26&1 Bachelor of Arts (B.A.) - Minor Concentration European Literature and Culture (18 credits)

The Minor Concentration in European Literature and Culture provides students with a broad foundation for understanding the development and interconnectedness of European culture, and its relevance for the comprehension of today's world through the study of literature and the arts from the Middle Ages to modern times. Knowledge of a language other than English is not required to complete the program.

Required Course (3 credits)

LLCU 210 (3) Introduction to European Literature and Culture

Complementary Courses (15 credits)

9-15 credits selected from the list below. At least 6 credits should be at the 300-level or above.

Students with an advanced knowledge of German, Italian, Russian, or Spanish can count GERM, HISP, ITAL, and RUSS literature courses taught in those languages toward the Minor Concentration. No more than 6 credits in any given area (LLCU, GERM, HISP, ITAL, and RUSS) shall count toward the Minor Concentration (not including LLCU 210).

GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 302	(3)	Hispanic Literature and Culture in English 2
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 385	(3)	Italian Futurist Movement
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

LLCU 200	(3)	Topics in Film
LLCU 201	(3)	Literature and Culture Topics
LLCU 220	(3)	Introduction to Literary Analysis
LLCU 230	(3)	Environmental Imaginations
LLCU 279	()	Introduction to Film History
LLCU 300	(3)	Cinema and the Visual
LLCU 301	(3)	Topics in Culture and Thought
RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire

0-6 credits in literature courses offered by Classical Studies (CLAS), English (ENGL), and French (FREN) selected from the following list:

CLAS 203	(3)	Greek Mythology
CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society
CLAS 306	(3)	Classics in Modern Media
CLAS 336	(3)	Modern Greek Literature
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 314	(3)	20th Century Drama
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

3.10.26.8.2 Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)

The Minor Concentration in German Language is designed to allow students to achieve linguistic proficiency in German and to introduce students to some of the major aspects of German culture.

This program may be expanded to the Major Concentration German Studies.

Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill Summer Studies.

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.

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

3.10.26.8.3 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&84 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
GERM 348	(3)	Nature and Eco-poetics
GERM 350	(3)	Modernism and the Avant-Garde
GERM 351	(3)	Berlin
GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 373	(3)	Weimar German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought
GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture

GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02
GERM 401	(3)	Advanced Topics in German Literature and Culture
GERM 580	(3)	Topics in German Literature and Culture

3.10.26.8.5 Bachelor of Arts (B.A.) - Honours German Studies (60 credits)

The Honours in German Studies provides students with a rigorous and broad inquiry into the major features that have defined German cultural life since the eighteenth century. Knowledge of the German language is a core component of the Honours program and all courses towards Honours 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.

Admission to the Honours program requires departmental approval. Students may begin this program in their first year. 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.

Honours students, according to Faculty regulations, also must complete at least a minor concentration (18 credits) in another academic unit.

Required Courses (6 credits)

GERM 575	(6)	Honours Thesis
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Complementary Courses (54 credits)

54 credits of complementary courses taken in German selected with the following specifications:

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

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 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 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 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

*NOTE: Students can take either GERM 331 or GERM 336 but not both.

3.10.26.8.6 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.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Course (3 credits)

GERM 570	(3)	Joint Honours Thesis
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Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications:

Students can elect to take either the German language stream in which most courses must be taught in German or the translation stream in which courses can be taught in either German or English.

6 credits must be in pre-20th Century literature and culture.

Students of the German language stream can take a maximum of 9 credits of LLCU courses or German Studies courses taught in English, only with prior approval.

3 credits at the 400 level (only applies to German language stream).

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

*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

3.10.26.8.7 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

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 345	(3)	Contemporary Hispanic Cultural Studies
HISP 347	(3)	Queer Iberia
HISP 355	(3)	Contemporary Spanish Literature and Culture
HISP 357	(3)	Latin American Digital Literature and Culture

3.10.26.8.8 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 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.

Complementary Courses

36 credits selected as follows:

Language and Civilization

0-18 credits in Language and Civilization from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate

HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Survey of Literature

6 - 12 credits in Survey of Literature from:

HISP 241	(3)	Survey of Spanish Literature and Culture 1
HISP 242	(3)	Survey of Spanish Literature and Culture 2
HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2

300-Level or Above Hispanic Literature

12-30 credits in Hispanic literature at the 300 level or above, of which at least 6 credits must be in literature of the pre-1800 period, from:

HISP 320	(3)	Contemporary Brazilian Literature and Film
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 345	(3)	Contemporary Hispanic Cultural Studies
HISP 347	(3)	Queer Iberia
HISP 350	(3)	Spanish Literature from 1898 to the Civil War
HISP 352	(3)	Latin American Novel
HISP 355	(3)	Contemporary Spanish Literature and Culture
HISP 356	(3)	Latin American Short Story
HISP 357	(3)	Latin American Digital Literature and Culture
HISP 358	(3)	Gender and Textualities
HISP 425	(3)	Topics in Hispanic and Lusophone Visual Cultures
HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 454	(3)	Major Figures: Spanish Literature and Culture
HISP 455	(3)	Major Figures: Latin American Literature and Culture
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1800 Literature

At least 6 credits from:

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 451	(3)	Don Quixote
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

Note: No more than 12 credits in courses taught in English shall count towards the Major.

3.10.26.8.9 Bachelor of Arts (B.A.) - Honours Hispanic Studies (60 credits)

The Department of Languages, Literatures, and Cultures - Hispanic Studies offers courses in the literature, intellectual history, and civilization of Spain and Latin America, as well as in the Spanish language. The Department's undergraduate and graduate programs are committed to expanding the liberal arts background of students by helping to develop the skills of communication and critical reasoning, and by providing insight into the culture of other regional, linguistic, and national groups. Enrichment in these areas reduces provincialism and broadens intellectual horizons, regardless of the professional interests or fields of specialization that may guide students in other facets of their university education.

McGill University has bilateral exchange agreements with the Universidad de Salamanca (Spain), the Universidad Nacional Autónoma de México, and the Universidad de las Américas, Puebla (Mexico), as well as with other leading universities in the Spanish and Portuguese-speaking world which allow student and faculty exchanges, and other collaborative ventures. Further information about these exchanges may be obtained from the Department or from the International Education website

Prerequisite for admission into Honours Hispanic Studies: a first-year Spanish course with a final grade of B+. Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Students must take an 18-credit Minor concentration in another area.

Required Courses (21 credits)

HISP 241	(3)	Survey of Spanish Literature and Culture 1
HISP 242	(3)	Survey of Spanish Literature and Culture 2
HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2
HISP 451	(3)	Don Quixote
HISP 490D1	(3)	Honours Thesis
HISP 490D2	(3)	Honours Thesis

Complementary Courses (39 credits)

39 credits with at least 6 credits selected from:

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

All remaining credits may be selected from courses given in Spanish in the Department at or above the intermediate Spanish language level (HISP 219 OR HISP 220D1/HISP 220D2).

No more than 18 credits in courses taught in English will count towards the Honours program.

3.10.26.8.10 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.

3.10.26&11 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 and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society

ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

31026812 Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

Group A – Basic Language Courses (0-12 credits)

- Students with no knowledge of the Italian language must take 12 credits in language.

- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1/ITAL 210D2, ITAL 215D1/ITAL 215D2, or ITAL 216.

- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

Group B – Courses Taught in Italian (a minimum of 12 credits, of which a maximum of 6 credits may be at the 200 level)

Group C – Courses Taught in English (0-12 credits)

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Italian for Advanced Beginners
ITAL 210D2	(3)	Italian for Advanced Beginners
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition
ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Italian Cultural Studies
ITAL 310	(3)	The Invention of Italian Literature

ITAL 329	(3)	Italian Cinematic Tradition
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 345	(3)	Romanticism in Italy
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 368	(3)	Literature of the Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 376	(3)	Italian Epic Poetry
ITAL 380	(3)	Italian Realisms
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
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

31026813 Bachelor of Arts (B.A.) - Honours Italian Studies (54 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.

Admission to the Honours program in Italian requires Departmental approval. Students wishing to register should consult with the Department as early as possible. Qualified students may begin Honours in Italian Studies in the first year, instead of the second, at the discretion of the Department.

Required Courses (6 credits)

One of the two honours thesis courses below:

ITAL 471D1	(3)	Honours Thesis
ITAL 471D2	(3)	Honours Thesis
ITAL 472	(6)	Honours Thesis (Intensive)

Complementary Courses (48 credits)

48 credits, 9 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.

30-48 credits from Group B – Courses Taught in Italian.

0-9 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 329	(3)	Italian Cinematic Tradition
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	()	
ITAL 345	(3)	Romanticism in Italy
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	()	

ITAL 371	(3)	The Italian Baroque
ITAL 376	()	
ITAL 380	()	
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	()	
ITAL 420	()	
ITAL 435	()	
ITAL 436	()	
ITAL 542	()	
ITAL 551	()	
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	()	

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	()	
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	()	
ITAL 395	()	
ITAL 416	()	
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	()	
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 324	()	
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

31026814 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	()	
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	()	
ITAL 380	()	
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	()	
ITAL 420	()	
ITAL 435	()	
ITAL 436	()	
ITAL 542	()	
ITAL 551	()	
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	()	

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	()	
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	()	
ITAL 395	()	
ITAL 416	()	
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

ANTH 337	()	
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 324	()	
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

31026815 Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 250	(3)	The Central European Novel
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 350	(3)	Central European Film
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

* RUSS 215 is not open to students who have taken RUSS 210 and RUSS 211.

** RUSS 316 is not open to students who have taken RUSS 310 and RUSS 311.

*** RUSS 415 is not open to students who have taken RUSS 400 and RUSS 401.

31026816 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 250	(3)	The Central European Novel
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

31026817 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 RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore

Group C (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 250	(3)	The Central European Novel
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture

RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

31026818 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
RUSS 250	(3)	The Central European Novel

Group D: 300 and 400 level

12 - 33 credits to be chosen from:

RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course

RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* 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.

Group E: LLC and Faculty of Arts

0 - 6 credits to be chosen from the following or their equivalent:

ANTH 303	(3)	Ethnographies of Post-socialism
ECON 331	(3)	Economic Development: Russia and USSR
HIST 216	(3)	Introduction to Russian History
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 306	(3)	East Central Europe, 1944-2004
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 316	(3)	History of the Russian Empire
HIST 326	(3)	History of the Soviet Union
HIST 406	(3)	Topics: Russian History
HIST 576D1	(3)	Seminar: Topics in Russian History
HIST 576D2	(3)	Seminar: Topics in Russian History
JWST 303	(3)	The Soviet Jewish Experience
POLI 329	(3)	Russian and Soviet Politics
POLI 331	(3)	Politics in East Central Europe
POLI 419	(3)	Transitions from Communism
SOCI 455	(3)	Post-Socialist Societies

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

Students are particularly encouraged to select from the growing options available under the LLC course offerings; these are subject to Departmental approval.

31026819 Bachelor of Arts (B.A.) - Joint Honours Component Russian (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students must consult with advisers in the respective departments for approval of their course selection.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

The Honours thesis course, RUSS 490, is usually completed in the student's final year and is on a topic in Russian literature or culture agreed upon in consultation with the student's thesis advisor.* It is to be written independently from the thesis that is required by the second program in which the student is pursuing their Joint Honours degree

*Note: Students must submit their Russian thesis project proposals to the Russian Studies departmental adviser by March 15th or November 15th of the preceding term for independent research courses.

Required Course (3 credits)

RUSS 490	(3)	Honours Seminar 01
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Complementary Courses (33 credits)

33 credits selected from the following specifications:

Group A: Russian Language

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1
RUSS 453	(3)	Advanced Russian Language and Syntax 2

*RUSS 215 is not open to students who have taken RUSS 210 or RUSS 211.

**RUSS 316 is not open to students who have taken RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B

6-9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore
RUSS 250	(3)	The Central European Novel

Group C

6-9 credits selected from the following courses or their equivalent:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky

RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Group D: Languages, Literatures, and Cultures and Faculty of Arts

0-3 credits to be chosen from the following or their equivalent:

ANTH 303	(3)	Ethnographies of Post-socialism
ECON 331	(3)	Economic Development: Russia and USSR
HIST 216	(3)	Introduction to Russian History
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 306	(3)	East Central Europe, 1944-2004
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 316	(3)	History of the Russian Empire
HIST 326	(3)	History of the Soviet Union
HIST 406	(3)	Topics: Russian History
HIST 576D1	(3)	Seminar: Topics in Russian History
HIST 576D2	(3)	Seminar: Topics in Russian History
JWST 303	(3)	The Soviet Jewish Experience
POLI 329	(3)	Russian and Soviet Politics
POLI 331	(3)	Politics in East Central Europe
POLI 419	(3)	Transitions from Communism
SOCI 455	(3)	Post-Socialist Societies

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

3.10.26.9 Latin-American and Caribbean Studies (LACS)

3.10.26.9.1 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, providing students with a broad-based understanding of this geographic region, and with the language and research skills required for advanced scholarship. The program in Latin-American and Caribbean Studies encourages the free exchange of ideas and perspectives in order to foster an environment suitable for serious reflection and critical analysis.

Study Abroad

Students in the program in Latin-American and Caribbean Studies are encouraged to consider the opportunities for foreign study and research made available by bilateral exchange agreements with leading universities in the Spanish and Portuguese-speaking world. These exchanges are open to all members of the McGill University community. Further information may be obtained from:

Service Point
3415 McTavish Street
Montreal QC H3A 0C8
Telephone: 514-398-7878

or from the [International Education website](#).

An agreement of cooperation with the Center for Latin American Studies at Georgetown University (Washington, D.C.) permits Honours students in Latin-American and Caribbean Studies at McGill to count a portion of their undergraduate coursework toward the degree requirements for Georgetown's M.A. in Latin American Studies, thus permitting completion of the M.A. in one calendar year. See the Program Adviser for additional information.

3.10.26.9.2 Undergraduate Degree Programs

The Latin American and Caribbean Studies Program is designed for those students who wish to take advantage of the resources available at McGill to acquire a deeper understanding of the Latin American and Caribbean region and its peoples. The interdisciplinary program in Latin-American and Caribbean Studies offers an Honours, a Joint Honours degree, a Major*, and a Minor concentration as part of the Multi-track B.A. in Arts.



Note: * Major concentration offered by Latin American and Caribbean Studies (Major Concentration Latin American Studies) is currently under review pending government approval

Further information for new and returning students is available at mcgill.ca/isid/teaching-programs/undergraduate/lacs.

3.10.26.9.3 Latin-American and Caribbean Studies (LACS) Faculty

Program Chair

Katherine Zein (*English*)

Program Committee

M Balan (*Political Science/Institute for the Study of International Development*); E. Kohn (*Anthropology*); C. LeGrand (*History and Classical Studies*); F. Macchi (*Languages, Literatures, and Cultures*); C Raynor (*Languages, Literatures, and Cultures*); D. Studnicki-Gizbert (*History and Classical Studies*); K. Zien (*English*).

3.10.26.9.4 Bachelor of Arts (B.A.) - Minor Concentration Latin American & Caribbean Studies (18 credits)

The B.A.; Minor Concentration in Latin American and Caribbean Studies focuses on a broad, interdisciplinary view of key aspects of Latin America and the Caribbean. The program may be expanded to the Major Concentration in Latin American and Caribbean Studies.

Required Course (3 credits)

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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Complementary Courses (15 credits)

3-6 credits to be chosen from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate

HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2

3-6 credits to be chosen from:

HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 480	(3)	Latin American and Caribbean Studies Reading Course
LACS 499	(3)	Internship: Latin America and Caribbean Studies
POLI 319	(3)	Politics of Latin America

3-9 credits to be selected from the following course list in consultation with the Program Adviser. If more than one course is chosen, they must be from at least two different disciplines or departments. At least one course should be at the 300 level or above. No more than 6 credits in Spanish or Portuguese language shall count for the Minor Concentration.

Courses Offered by Other Units

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology and Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 332	(3)	Mesoamerican Archaeology
ANTH 422	(3)	Contemporary Latin American Culture and Society

Canadian Studies

CANS 412	(3)	Canada and Americas Seminar
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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
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

Hispanic Studies

HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 320	(3)	Contemporary Brazilian Literature and Film
HISP 328	(3)	Literature of Ideas: Latin America
HISP 332	(3)	Latin American Literature of 19th Century
HISP 333	(3)	Theatre, Performance and Politics in Latin America
HISP 352	(3)	Latin American Novel
HISP 356	(3)	Latin American Short Story
HISP 358	(3)	Gender and Textualities
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Indigenous Peoples and Empires
HIST 366	(3)	Themes in Latin American History
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters

Political Science

POLI 227	(3)	Developing Areas/Introduction
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3.10.26.95 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
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
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 320	(3)	Contemporary Brazilian Literature and Film
HISP 328	(3)	Literature of Ideas: Latin America
HISP 332	(3)	Latin American Literature of 19th Century
HISP 333	(3)	Theatre, Performance and Politics in Latin America
HISP 352	(3)	Latin American Novel
HISP 356	(3)	Latin American Short Story
HISP 358	(3)	Gender and Textualities
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Indigenous Peoples and Empires
HIST 366	(3)	Themes in Latin American History
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 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

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
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3.1026.96 Bachelor of Arts (B.A.) - Honours Latin American and Caribbean Studies (60 credits)

The Honours Latin American and Caribbean Studies is designed to meet the needs of students who plan to attend graduate or professional school upon completion of the B.A. This program provides a comprehensive interdisciplinary understanding of Latin America and the Caribbean, upon which more specialized coursework and research may be based. This program is recommended for students who envision graduate study in a specific discipline, such as History or Political Science.

While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, in addition, students pursuing the Honours Latin American and Caribbean Studies must normally maintain a B+ (3.30) average in all program courses. Students must also meet all additional Faculty of Arts requirements for graduation with Honours.

Required Courses (21 credits)

* Note: Successful completion of intermediate-level Spanish (HISP 220D1/D2 or HISP 219 or equivalent) is a prerequisite for the required courses HISP 243 and HISP 244.

HISP 243*	(3)	Survey of Latin American Literature and Culture 1
HISP 244*	(3)	Survey of Latin American Literature and Culture 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
LACS 498	(3)	Honours Thesis
POLI 319	(3)	Politics of Latin America

Complementary Courses (39 credits)

39 credits selected from the Complementary Course List in consultation with the Program Adviser with the following requirements.

- 1) 12 credits must be taken in Spanish or Portuguese.
- 2) 27 additional credits on Latin America and the Caribbean (exclusive of language courses).
- 3) A minimum of 15 of these 27 credits must be taken in one of the following disciplinary clusters, which may also include up to 6 credits of theoretical and/or methodological courses of particular relevance to the student's research interests: Cluster 1 - Literature and Culture; Cluster 2 - Economics, History, and Political Science; Cluster 3 - Anthropology and Geography.

Complementary Course List

Hispanic Studies - Languages

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
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 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

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
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

3.10.26.9.7 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 American and Caribbean region. Students wishing to study at the Honours level in two disciplines can combine Joint Honours programs in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Joint Honours students should consult an adviser in each department to discuss their course selection and their research project. Joint Honours students are expected to maintain a program GPA of 3.30 and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Program Requirements

At least 9 of the 36 credits must be at the 400 level or above.

Required Courses (21 credits)

HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2
HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 497	(3)	Research Seminar: Latin America and the Caribbean
LACS 498	(3)	Honours Thesis
POLI 319	(3)	Politics of Latin America

Complementary Courses (15 credits)

No more than 9 courses in one field.

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology and Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 428	(3)	Saints and Mediation in Latin America

Canadian Studies

CANS 412	(3)	Canada and Americas Seminar
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Economics

ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2

English

ENGL 431*	(3)	Studies in Drama
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* When given under a topic related to Latin American and Caribbean studies.

Geography

GEOG 310	(3)	Development and Livelihoods
GEOG 404**	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments

** When the topic is related to Panama.

Hispanic Studies

HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220	(6)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 320	(3)	Contemporary Brazilian Literature and Film
HISP 328	(3)	Literature of Ideas: Latin America
HISP 332	(3)	Latin American Literature of 19th Century
HISP 333	(3)	Theatre, Performance and Politics in Latin America
HISP 352	(3)	Latin American Novel

HISP 356	(3)	Latin American Short Story
HISP 358	(3)	Gender and Textualities
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Indigenous Peoples and Empires
HIST 366	(3)	Themes in Latin American History
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 580D1	(3)	European and Native-American Encounters
HIST 580D2	(3)	European and Native-American Encounters

Political Science

POLI 227	(3)	Developing Areas/Introduction
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3.10.27 Linguistics (LING)

3.10.27.1 Location

Department of Linguistics
 1085 Dr. Penfield Avenue, Room 111
 Montreal QC H3A 1A7
 Telephone: 514-398-4222
 Website: mcgill.ca/linguistics

3.10.27.2 About Linguistics

Linguistics is the scientific study of human language. Topics covered at McGill University include: the structure of the world's languages at the level of sounds (phonetics and phonology), words (morphology), sentences (syntax), and meaning (semantics); how people learn languages (acquisition); how people use two languages (bilingualism); how to model and process linguistic data using computational methods (computational linguistics); 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, for example, 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 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; M. Gopnik; M. Paradis; G.L. Piggott; L. de M. Travis; L. White.

Professors

B. Gillon; J. Coon; B. Schwarz; M. Wagner.

Associate Professors

L. Alonso-Ovalle; C. Boberg; M. Clayards; H.M. Goad; J. Shimoyama; M. Sonderegger.

Assistant Professors

J. A. Crippen; T. J. O'Donnell; M. Martinovi ; S. Reddy; F. Torreira.

3.10.27.6 Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)

This program may be expanded to the Major Concentration Linguistics.

Required Courses (9 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 371	(3)	Syntax 1

Complementary Courses (9 credits)

9 credits in Linguistics chosen according to the student's interests. At least 3 of these credits must be at the 400 or 500 level. Only 3 credits at the 200 level may count towards complementary credits. The complementary courses may include (but not limited to) the following:

COMP 230	(3)	Logic and Computability
LING 360	(3)	Introduction to Semantics
MATH 318	(3)	Mathematical Logic
PHIL 210	(3)	Introduction to Deductive Logic 1

3.10.27.7 Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)**Required Courses (18 credits)**

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (18 credits)

18 credits in Linguistics (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

3.10.27.8 Bachelor of Arts (B.A.) - Honours Linguistics (60 credits)

Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Honours Thesis, LING 480D1/D2. According to Faculty of Arts regulations, Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (24 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 480D1	(3)	Honours Thesis
LING 480D2	(3)	Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (36 credits)

36 credits in Linguistics including 12 credits in related fields. At least 15 of the credits in Linguistics must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

Other Fields

12 credits in related fields selected from the following list.

Computer Science

COMP 202	(3)	Foundations of Programming
COMP 230	(3)	Logic and Computability
COMP 250	(3)	Introduction to Computer Science

French Language and Literature

FREN 231	(3)	Linguistique française
FREN 336	(3)	Histoire de la langue française
FREN 434	(3)	Sociolinguistique du français

Language

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 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 433	(3)	Cognitive Science
PSYC 530	(3)	Applied Topics in Deafness

Statistics

Any course in statistics (from any department).

3.10.27.9 Bachelor of Arts (B.A.) - Joint Honours Component Linguistics (36 credits)

Students who wish to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.30 (B+ average) in their program courses and a minimum grade of B+ must be obtained in three out of four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Joint Honours Thesis, LING 481D1/D2. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (21 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 481D1	(1.5)	Joint Honours Thesis
LING 481D2	(1.5)	Joint Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (15 credits)

15 credits in Linguistics (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

3.10.27.10 Linguistics (LING) Related Programs**3.10.27.10.1 Minor in Cognitive Science**

Students following major or honours programs in Linguistics 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](#).

3.10.28 Management for Arts Students

The Desautels Faculty of Management offers four minor programs for non-Management students open for application to students in the Faculty of Arts. 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 regarding applying to the following programs.

- [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 \(For Non-Management Students\) \(18 credits\)](#)

3.10.29 Mathematics and Statistics (MATH)

3.10.29.1 Location

Department of Mathematics and Statistics
Burnside Hall, Room 1005
805 Sherbrooke Street West
Montreal QC H3A 0B9
Telephone: 514-398-3800
Website: mcgill.ca/mathstat

3.10.29.2 About Mathematics and Statistics

The Department of Mathematics and Statistics offers programs in both Arts and Science. For a list of teaching staff and an outline of the nature of the discipline, refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.22: Mathematics and Statistics \(MATH\)](#).

A Desautels Faculty of Management B.Com. degree with a Major Concentration in Mathematics or a Major Concentration in Statistics is also available.

Students entering a Mathematics program are normally expected to have completed MATH 133; MATH 139 or MATH 140; MATH 141; or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the program credits.

The following programs are specifically for **Arts** students:

- Minor Concentration Mathematics
- Supplementary Minor Concentration Mathematics
- Major Concentration Statistics
- Minor Concentration Statistics
- Supplementary Minor Concentration Statistics
- Major Concentration Mathematics
- Joint Honours Component Mathematics

The following programs may be taken by students in either **Arts** or **Science**:

- Honours in Applied Mathematics
- Honours in Mathematics
- Honours in Probability and Statistics
- Joint Honours in Mathematics and Computer Science

Students entering one of the Minor or Major Concentrations listed below who have successfully completed a course equivalent to MATH 222 (Calculus 3) prior to coming to McGill are given exemption from taking MATH 222, but must replace it with a Complementary Mathematics course in the program of at least 3 credits. For more information, consult an [adviser](#).

3.10.29.3 Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track 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)	Partial Differential Equations
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 Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 417	(3)	Linear Optimization

3.10.29.4 Bachelor of Arts (B.A.) - Supplementary Minor Concentration in Mathematics (18 credits)

This Minor concentration is open only to students registered in the Major Concentration Mathematics. Taken together, these two concentrations constitute a program equivalent to the Major in Mathematics offered by the Faculty of Science.

No course overlap between the Major Concentration Mathematics and the Supplementary Minor Concentration in Mathematics is permitted.

Note that according to the Faculty of Arts Multi-track System degree requirements, option C, students registered in the Supplementary Minor Concentration in Mathematics must also complete another minor concentration in a discipline other than Mathematics.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

Required Course (3 credits)

* Note: If Math 315 has already been taken as part of the Major Concentration Mathematics, an additional 3-credit complementary course must be taken to replace it.

MATH 315*	(3)	Ordinary Differential Equations
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Complementary Courses (15 credits)

15 credits selected as follows:

3 credits from:

* Note: If either of MATH 249 or MATH 316 has been taken as part of the Major Concentration Mathematics, another 3-credit complementary course must be taken.

MATH 249*	(3)	Honours Complex Variables
MATH 316*	(3)	Complex Variables

12 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Partial Differential Equations
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 335	(3)	Computational Algebra
MATH 338	(3)	History and Philosophy of Mathematics
MATH 340	(3)	Discrete Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 352	(1)	Problem Seminar
MATH 378	(3)	Nonlinear Optimization
MATH 410	(3)	Majors Project
MATH 417	(3)	Linear Optimization
MATH 423	(3)	Applied Regression
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 463	(0)	
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics

MATH 525 (4) Sampling Theory and Applications

3.10.29.5 Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (15 credits)

* Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222, MATH 223 and MATH 323 must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the Major Concentration Mathematics).

MATH 222*	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Applied Regression

Complementary Courses (3 credits)

3 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 317	(3)	Numerical Analysis
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 558	(0)	Design of Experiments

3.10.29.6 Bachelor of Arts (B.A.) - Supplementary Minor Concentration Statistics (18 credits)

Taken together with the B.A.; Major Concentration in Statistics, this program constitutes an equivalent of the B.Sc.; Major in Statistics program offered by the Faculty of Science. It provides training in statistics, with a mathematical core and basic training in computing. With satisfactory performance in an

appropriate selection of courses, these two programs can lead to the accreditation "A.Stat" from the Statistical Society of Canada, which is regarded as the entry level requirement for a statistician practicing in Canada.

This supplementary minor concentration is open only to students registered in the B.A.; Major Concentration in Statistics. Taken together, these two programs constitute a program equivalent to the B.Sc.; Major in Statistics offered by the Faculty of Science. No course overlap between the B.A.; Major Concentration in Statistics and the B.A.; Supplementary Minor Concentration in Statistics is permitted.

Note that according to the Faculty of Arts Multi-Track System degree requirements, option C, students registered in the B.A.; Supplementary Minor Concentration in Statistics must also complete another minor concentration in a discipline other than Mathematics and Statistics. For more information about the Multi-Track System options, please refer to Faculty of Arts regulations under "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs."

Guidelines for Course Selection

Students are strongly advised to complete all required courses and all Part I and Part II complementary courses by the end of U2, except for MATH 423.

Where appropriate, Honours courses may be substituted for equivalent courses. Students planning to pursue graduate studies are encouraged to make such substitutions, and to take MATH 556 and MATH 557 as complementary courses.

Required Courses (6 credits)

* If MATH 423 has been taken as part of the B.A.; Major Concentration in Statistics, another 3-credit complementary course from Part II must be taken.

MATH 243	(3)	Analysis 2
MATH 423*	(3)	Applied Regression

Complementary Courses (12 credits)

Part I: 3 credits selected from **:

** Students who have sufficient knowledge in programming are encouraged to take COMP 250.

COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
COMP 250	(3)	Introduction to Computer Science

Part II: 3 credits selected from:

*** Students can take either MATH 317 or COMP 350, but not both.

COMP 350***	(3)	Numerical Computing
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316	(3)	Complex Variables
MATH 317***	(3)	Numerical Analysis
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Mathematics
MATH 350	(3)	Honours Discrete Mathematics
MATH 378	(3)	Nonlinear Optimization
MATH 417	(3)	Linear Optimization
MATH 430	(3)	Mathematical Finance
MATH 463	(0)	

Part III: 6 credits selected from:

+ Students can take either MATH 410 or MATH 420, but not both.

COMP 551	(4)	Applied Machine Learning
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 410+	(3)	Majors Project
MATH 420+	(3)	Independent Study
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(4)	Design of Experiments
MATH 598	(4)	Topics in Probability and Statistics
WCOM 314	(3)	Communicating Science

3.10.29.7 Bachelor of Arts (B.A.) - Major Concentration Statistics (36 credits)

The program provides training in statistics with a mathematical core. Taken together with the B.A.; Supplementary Minor Concentration in Statistics, these two programs constitute an equivalent of the B.Sc.; Major in Statistics program offered by the Faculty of Science. With satisfactory performance in an appropriate selection of courses, these two programs can lead to the accreditation "A.Stat" from the Statistical Society of Canada, which is regarded as the entry level requirement for a statistician practicing in Canada. Students interested in this accreditation should consult an academic adviser.

Program Prerequisites

Students entering the B.A.; Major Concentration Statistics program are normally expected to have completed the courses below or their equivalent. Otherwise, they will be required to make up any deficiencies in these courses over and above the 36 credits of courses.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

According to the Faculty of Arts Multi-Track System degree requirements, option C, students registered in this program may also register in the B.A.; Supplementary Minor Concentration in Statistics; they must also then complete another minor concentration in a discipline other than Mathematics and Statistics.

For more information about the Multi-Track System options, please refer to Faculty of Arts regulations under "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs."

Guidelines for Course Selection

Students are strongly advised to complete all required courses by the end of U2.

Where appropriate, Honours courses may be substituted for equivalent courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Required Courses (24 credits)

* Students who have taken an equivalent of MATH 203 at CEGEP or elsewhere must replace it by another course from the Complementary course list.

** Students must take MATH 204 before taking MATH 324.

MATH 203*	(3)	Principles of Statistics 1
MATH 204**	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 242	(3)	Analysis 1
MATH 323	(3)	Probability
MATH 324**	(3)	Statistics

Complementary Courses (12 credits)

* Students can take either MATH 410 or MATH 420, but not both.

COMP 551	(4)	Applied Machine Learning
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 410*	(3)	Majors Project
MATH 420*	(3)	Independent Study
MATH 423	(3)	Applied Regression
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(4)	Design of Experiments
MATH 598	(4)	Topics in Probability and Statistics
WCOM 314	(3)	Communicating Science

3.10.29.8 Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses involved, the possibility of entering into an Honours program in Mathematics, in Applied Mathematics, in Probability and Statistics, or a Joint Honours program in Mathematics and another discipline.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Course Selection

Where appropriate, Honours-level courses may be substituted for their Majors-level counterparts. Students planning to undertake graduate studies in mathematics are urged to make such substitutions.

Students interested in computer science should consider the courses MATH 317, MATH 318, MATH 327, MATH 340, MATH 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, and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, 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 Mathematics
MATH 423	(3)	Applied Regression

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Partial Differential Equations
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 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

3.10.29.9 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 222	(3)	Calculus 3

Required Courses (9 credits)

MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2

Complementary Courses (27 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

* It is strongly recommended that students take MATH 254.

3 credits selected from:

MATH 248	(3)	Honours Vector Calculus
MATH 358	(0)	Honours Advanced Calculus

** It is strongly recommended that students take MATH 358.

15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

* Not open to students who have taken MATH 354.

** Not open to students who have taken MATH 355.

*** Not open to students who have taken MATH 370.

+ Not open to students who have taken MATH 371.

++ Not open to students who have taken MATH 380.

MATH 325	(3)	Honours Ordinary Differential Equations
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MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 454*	(3)	Honours Analysis 3
MATH 455**	(3)	Honours Analysis 4
MATH 456***	(3)	Honours Algebra 3
MATH 457+	(3)	Honours Algebra 4
MATH 458++	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis

3.10.29.10 Bachelor of Science (B.Sc.) - Honours Applied Mathematics (63 credits)

Applied Mathematics is a very broad field and students are encouraged to choose a coherent program of complementary courses. Most students specialize in "continuous" or "discrete" applied mathematics, but there are many sensible combinations of courses, and the following informal guidelines should be discussed with the student's adviser. Also, aside from seeking to develop a sound basis in Applied Mathematics, one of the objectives of the program is to kindle the students' interest in possible areas of application. To develop an appreciation of the diversity of Applied Mathematics, students are advised to develop some depth (e.g., by completing a minor) in a field related to Applied Mathematics such as Atmospheric and Oceanic Sciences, Biology, Biochemistry, Chemistry, Computer Science, Earth and Planetary Sciences, Economics, Engineering, 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 MATH 140/222 are considered equivalent.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

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.

Students who transfer to Honours in Applied 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

(39-42 credits)

* Students with limited programming experience should take COMP 202 or COMP 204 or COMP 208 or equivalent before COMP 250.

** Students select either MATH 251 or MATH 247, but not both.

*** Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

COMP 250*	(3)	Introduction to Computer Science
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	(3)	Honours Advanced Calculus
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (21 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254+	(3)	Honours Analysis 1

+ It is strongly recommended that students take MATH 254.

Advising Notes:

Students interested in continuous applied 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 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 517, MATH 547, MATH 550, MATH 552.

3 credits selected from:

MATH 249	(3)	Honours Complex Variables
MATH 466	(3)	Honours Complex Analysis

at least 3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

0-6 credits from the following courses for which no Honours equivalent exists.

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 430	(3)	Mathematical Finance
MATH 478	(3)	Computational Methods in Applied Mathematics

and the remainder of credits selected from:

COMP 362	(3)	Honours Algorithm Design
MATH 352	(1)	Problem Seminar

MATH 377	(3)	Honours Number Theory
MATH 398	(3)	Honours Euclidean Geometry
MATH 454++	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

++ Not open to students who have taken MATH 354.

All MATH 500-level courses.

Other courses with the permission of the Department.

3.10.29.11 Bachelor of Science (B.Sc.) - Honours Mathematics (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents.

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/151 and MATH 140/141/222 are considered equivalent.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (48 credits)

45-48 credits

+ Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

* Not open to students who have taken MATH 354.

MATH 222+	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 358	(3)	Honours Advanced Calculus
MATH 454*	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4

MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (15 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254**	(3)	Honours Analysis 1

** It is strongly recommended that students take MATH 254.

0-6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 378	(3)	Nonlinear Optimization
MATH 430	(3)	Mathematical Finance
MATH 463	(0)	

6-12 credits selected from:

COMP 250++	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

all MATH 500-level courses.

++ Students with limited programming experience should take COMP 202 or COMP 204 or COMP 208 or equivalent before COMP 250.

Students may select other courses with the permission of the Department.

3.10.29.12 Bachelor of Science (B.Sc.) - Honours Probability and Statistics (63 credits)

The program provides training in probability and statistics, with a solid mathematical core, and basic training in computing. It prepares students for graduate school in probability, statistics, or data science. It also 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/MATH 151 and MATH 140/MATH 141/MATH 222 are considered equivalent.

Required Courses (28-31 credits)

* Students with limited programming experience should take COMP 202/COMP 204/COMP 208 or equivalent before COMP 250.

** Students select either MATH 251 or MATH 247, but not both.

*** Students who have successfully completed MATH 150/MATH 151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/MATH 151 are not required to take MATH 222.

Note: Students with limited knowledge of computer programming should take COMP 202/COMP 204/COMP 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 beforehand, in their first semester or their first year.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

COMP 250*	(3)	Introduction to Computer Science
MATH 208	(3)	Introduction to Statistical Computing
MATH 222***	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 251**	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 470	(3)	Honours Research Project
MATH 533	(4)	Regression and Analysis of Variance

Complementary Courses (32 credits)

Advising notes:

- Students wishing to pursue probability or mathematical statistics in graduate school are strongly advised to take MATH 587 and recommended to take honours mathematics courses as complementary courses in Part 11, in particular MATH 358, MATH 454 and MATH 455.
- Students wishing to pursue applied statistics and/or careers as statisticians in industry or government are advised to take MATH 523, MATH 524, MATH 547, and as many courses as possible from Part III of the list of Complementary Courses below. Students interested in obtaining the A-Stat accreditation from the Statistical Society of Canada should discuss their course selection with the academic advisor.
- Students with interest in actuarial science are advised to choose from the following as part of their Complementary Courses: MATH 329, MATH 430, MATH 524, MATH 540, MATH 541, MATH 545, MATH 547.
- Students with interest in data science and machine learning are advised to choose from the following as part of their Complementary Courses: COMP 206, COMP 251, COMP 424, COMP 551, MATH 350, MATH 462 and MATH 517.

Part 1: 3 credits selected from:

* It is strongly recommended that students take MATH 254.

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

Part II: at least 6 credits in mathematics and computer science selected from:

+ Students can select either MATH 248 or MATH 358, but not both.

++ Students may obtain credit for both MATH 455 and MATH 587.

COMP 206	(3)	Introduction to Software Systems
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 248+	(3)	Honours Vector Calculus
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 358+	(3)	Honours Advanced Calculus
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 454	(3)	Honours Analysis 3
MATH 455++	(3)	Honours Analysis 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 475	(3)	Honours Partial Differential Equations
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 480	(3)	Honours Independent Study

and any 500-level course offered by the Department of Mathematics and Statistics not listed in Part III below.

Part III: at least 18 credits in probability and statistics selected as follows:

At least 8 credits selected from:

MATH 308	(3)	Fundamentals of Statistical Learning
MATH 524	(4)	Nonparametric Statistics
MATH 547	(4)	Stochastic Processes
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2

MATH 587	(4)	Advanced Probability Theory 1
MATH 589	(4)	Advanced Probability Theory 2

At least 7 credits selected from:

+++ Students must take MATH 204 before taking MATH 357 or MATH 533. Moreover, it is advisable to take MATH 203 before taking MATH 204.

MATH 204+++	(3)	Principles of Statistics 2
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 558	(4)	Design of Experiments

0-3 credits from the following courses for which no Honours equivalent exists:

MATH 329	(3)	Theory of Interest
MATH 427	(3)	Statistical Quality Control

The remaining credits selected from:

+++ Students may select either MATH 594 or MATH 598 but not both.

COMP 424	(3)	Artificial Intelligence
COMP 451	(3)	Fundamentals of Machine Learning
COMP 551	(4)	Applied Machine Learning
MATH 430	(3)	Mathematical Finance
MATH 462	(3)	Honours Mathematics for Machine Learning
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

3.10.29.13 Bachelor of Science (B.Sc.) - Honours Mathematics and Computer Science (78 credits)

Students may complete this program with a minimum of 72 credits or a maximum of 78 credits depending if they are exempt from COMP 202, COMP 204, COMP 208 and/or MATH 222.

Program Prerequisites

Students must consult an Honours adviser in both departments to ensure that 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/MATH151 and MATH 140/MATH 141/MATH 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/MATH 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/COMP 204/COMP 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	(3)	Honours Advanced Calculus

18 credits in Mathematics, at least 9 credits selected from:

+ Not open to students who have taken MATH 354.

MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 387	(3)	Honours Numerical Analysis
MATH 454+	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4

The remaining credits should be selected from honours courses and 500-level courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 364 and COMP 396. ECSE 508 may also be taken.

3.10.30 Music (MUAR)

3.10.30.1 Location

Strathcona Music Building
555 Sherbrooke Street West
Montreal QC H3A 1E3
Email: studentaffairs.music@mcgill.ca
Website: mcgill.ca/music

3.10.30.2 About Music Programs in Arts

Available within the Faculty of Arts are a Major and a Minor Concentration in Music.

Program details and registration instructions for the music minor and major programs for B.A. students are found on this website: mcgill.ca/music/programs/ba.

B.A. students may also apply to the other music minors (such as Musical Applications of Technology and Musical Science and Technology) provided they have the necessary music prerequisites. Visit the Music Minor web page mcgill.ca/music/programs/minor for more information.

B.A. students should consult with a *B.A. Music Program Adviser* to ensure that they have the necessary prerequisites prior to applying to one or more of these music 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](#).



Note: Students in the Faculty of Arts may not complete both a Major Concentration in Music and a Minor Concentration in Music.

3.10.30.3 Music Ensembles

All McGill students enrolled in a degree program may audition for a variety of ensembles offered through the Schulich School of Music. The majority of the ensemble auditions take place only once a year, generally during the first week of September. If you pass the audition, you may participate in the assigned ensemble(s). Consult with your home faculty adviser to determine if you may apply the ensemble credits toward your degree. The schedule and requirements for ensemble auditions are available on the [Ensemble website](#).

Music Ensembles		
MUEN 496	(2)	Opera Studio
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 567	(1)	Beethoven Orchestra
MUEN 569	(1)	Tabla Ensemble
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593 (section 001)	(2)	Choral Ensembles (Schulich Singers)
MUEN 593 (section 002)	(2)	Choral Ensembles (Concert Choir)
MUEN 593 (section 003)	(2)	Choral Ensembles (University Chorus)
MUEN 594	(2)	Contemporary Music Ensemble

Music Ensembles

MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

3.10.30.4 Courses Offered by the Schulich School of Music open to Bachelor of Arts students

Students from other faculties may also register for the courses listed below as long as they have the necessary prerequisites or co-requisites and/or permission from the instructor. Consult with your home faculty adviser to see how these courses may fit into your program.

Courses with a MUAR prefix are considered to be music courses taught in the Faculty of Arts, but cannot be credited toward the B.Mus., L.Mus., or B.A. Major or Minor Concentration in Music programs.

Courses with prefixes MUHL, MUTH and MUMT are considered to be music courses taught in the Schulich School of Music, and for the purpose of the policy, courses outside the Faculties of Arts and Science can be used as Arts courses for the Faculty of Arts. More details on this policy can be found here: mcgill.ca/oasis/academic/courses/courses-outside-faculties-arts-or-science.

3.10.30.5 Music (MUAR) Faculty
Chair, Department of Music Research

Gary Scavone

Chair, Department of Performance

Stéphane Lemelin

Associate Dean (Academic and Student Affairs)

Andrea Creech

3.10.30.6 Bachelor of Arts (B.A.) - Minor Concentration Music (18 credits)

Students in the Music Minor concentration must consult the Music Adviser prior to registration. Questions regarding the general requirements of the B.A. program and especially elective courses should be addressed to the Office of Advising and Student Information Services (OASIS) at the Arts Faculty.

Completion of the diagnostic placement exams for music theory and musicianship is mandatory. Students should refer to the placement exam website for more details: <https://www.mcgill.ca/music/student-resources/new-students/placement-exams>.

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
MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

Complementary Courses (9 credits)

Students may select from courses in the Schulich School of Music except for courses with a MUAR subject code. Students must meet all prerequisite and/or corequisite requirements before registering.

3.10.30.7 Bachelor of Arts (B.A.) - Major Concentration Music (36 credits)

This Major Concentration studies music as a vital art form in contemporary society and in the history of Western civilization. Its central purpose emphasizes music within broader intellectual and cultural contexts; the Major concentration's premise is that, as a product of culture, music must be considered in relation to the other humanistic disciplines. This program could be an excellent preparation for graduate work in music (musicology, music theory, music librarianship, music journalism, arts administration) or for professional studies in other fields.

Students in the Music Major Concentration must consult the Music Adviser prior to registration. Questions regarding the general requirements of the B.A. program and especially elective courses should be addressed to the Office of Advising and Student Information Services (OASIS) at the Faculty of Arts.

Completion of the diagnostic placement exams for music theory and musicianship is mandatory. Students should refer to the placement exam website for more details: <https://www.mcgill.ca/music/student-resources/undergraduates/new-students/placement-exams>.

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 36 credits of the program requirements.

MUHL 186	(3)	Western Musical Traditions
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 100	(3)	Music Theory Fundamentals
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (13 credits)

Prior to registering for each required course, students must either have completed the pre-requisite course or have successfully passed the diagnostic placement exam.

MUHL 286	(3)	Critical Thinking About Music
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4
MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

Complementary Courses (23 credits)

Students select from courses offered by the Schulich School of Music except for courses with a MUAR subject code. Students must include 3 credits from a MUHL or MUPP subject code at the 300 level or higher.

3.10.30.8 Music Related Programs

3.10.30.8.1 Minor in Musical Applications of Technology

(18 credits) (Non-Expandable)

[Program registration cannot be done via Minerva.]

Detailed information about this program is found in [Schulich School of Music > Undergraduate > Browse Academic Units & Programs > Department of 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 \(18 credits\)](#).

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 Program > section 10.8.1.13: Bachelor of Music \(B.Mus.\) - Minor Musical Science and Technology \(18 credits\)](#).

3.10.31 Philosophy (PHIL)

3.10.31.1 Location

Leacock Building, 9th Floor
 855 Sherbrooke Street West
 Montreal QC H3A 2T7
 Telephone: 514-398-6060
 Email: info.philosophy@mcgill.ca
 Website: mcgill.ca/philosophy

3.10.31.2 About Philosophy

Broadly speaking, the principal aim of philosophy is to increase our understanding of ourselves, the world, and our place in it. Philosophy differs from the empirical and social sciences in important respects. Different areas of philosophy are characterized by the questions they address. For example:

- **Epistemology** inquires into the nature of knowledge;
- **Metaphysics** is concerned with the fundamental nature of the world and of the types of things that it contains;
- **Ethics** investigates the nature of moral judgment and moral reasoning;
- **Political Philosophy** examines such matters as justice, freedom, rights, democracy, and power;
- **Logic** is broadly the analysis of the structure of correct reasoning.

In addition, there are the various “Philosophies of...” e.g., Philosophy of Science, Philosophy of Language, Philosophy of Mind, and Philosophy of Religion.

Some of the courses in the Department are explicitly devoted to these specific areas of philosophy, each exploring one or several ways of construing and answering the questions it poses. Other courses explore some period or individual figure in the history of philosophy, approaching philosophical questions through the work of past thinkers, and often exploring connections between the different areas of philosophy.

The discipline of Philosophy, as a particular way of thinking, emphasizes clarity in expression, both written and oral, and rigour in argument. Philosophical questions are intriguing and complex, and so philosophical method stresses thoroughness and intellectual generosity—the willingness and ability to grasp another’s arguments and respond to them.

The Department requires that all students in the Honours and Joint Honours programs take a special 3-credit course (PHIL 301), the principal aim of which is to equip students with the distinctively philosophical skills required for advanced work in the field. The course is not available to students in the Major or Minor programs.

The B.A. in Philosophy is not a professional qualification. It prepares students for graduate work in philosophy and for study in other disciplines, e.g., Law. As the interdisciplinary discipline par excellence, philosophy also maintains and encourages ties with other fields, so many students will find that certain 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 both for credit (using the second as an elective), as the content in PHIL 201 does not overlap with PHIL 200.

3.10.31.3 Philosophy Faculty

Chair

Ian Gold

Emeritus Professors

George Di Giovanni; Storrs McCall; James McGilvray; Calvin Normore; Charles Taylor.

Professors

David Davies; Marguerite Deslauriers; Carlos Fraenkel; (*joint appt. with Jewish Studies*); Ian Gold; (*joint appt. with Psychiatry*); Michael Hallett; Iwao Hirose; (*joint appt. with Bieler School of Environment*); Jocelyn Maclure; Stephen Menn; Natalie Stoljar; Daniel Weinstock.

Associate Professors

Alia Al-Saji; Michael Blome-Tillmann; R. Philip Buckley; Emily Carson; Gaëlle Fiasse; Alison Laywine; Eric Lewis; Dirk Schlimm; Hasana Sharp; Eran Tal; Kristin Voigt.

Assistant Professors

Christopher Howard; Stephanie Leary.

Adjunct Professor

Susan-Judith Hoffmann

Auxiliary Professor

Konstantinos Arvanitakis

Associate Members

Arash Abizadeh; Phoebe Friesen; Brendan S. Gillon; Jacob T. Levy; Robert Wisnovsky.

Affiliate Members

Steven Davis; Iain Macdonald.

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 427	(3)	Topics in Critical Philosophy of Race
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 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 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 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

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	(0)	
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	(0)	
PHIL 410	(0)	
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group B

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group C

6 credits (two courses) from Group C OR Group D:

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(0)	
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group D

6 credits (two courses) from Group C OR Group D:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory

PHIL 445 (3) 19th Century Political Theory

Group E

3 credits from:

PHIL 230 (3) Introduction to Moral Philosophy 1
 PHIL 237 (3) Contemporary Moral Issues
 PHIL 240 (3) Political Philosophy 1
 PHIL 242 (3) Introduction to Feminist Theory

Group F

3 credits from:

PHIL 334 (3) Ethical Theory
 PHIL 343 (3) Biomedical Ethics
 PHIL 348 (3) Philosophy of Law 1
 PHIL 427 (3) Topics in Critical Philosophy of Race
 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 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
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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 242	(3)	Introduction to Feminist Theory

Group A

6 credits from Group A or Group B.

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

Group B

6 credits from Group A or Group B.

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

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: mcgill.ca/politicalscience

3.10.32.2 About Political Science

Students wishing to do an honours degree or a major or minor concentration in Political Science should consult a Political Science *departmental adviser* each year in order to devise a suitable program. Proper selection of courses is required if a student wants to graduate on time.

3.10.32.3 Procedure for New Students

All new students entering the Political Science program (including minor concentrations) are strongly urged to attend an information meeting scheduled at the end of August; the date and location of the meeting will be posted on the web. Attendance will help students prepare for their session with an adviser. It is the student's responsibility to be in Montreal for the meeting. The *Political Science Programs Guide* is an important resource for new students; it is essential to read the guide prior to attending the information meeting.

3.10.32.4 For All Political Science Students

The *Political Science Programs Guide* is available in the Department as well as on the [Political Science website](#). Students wishing to have courses taken at other universities counted as satisfying program requirements must bring copies of their transcripts and course syllabi to the Director of the Major or Honours program or the Director of Undergraduate Studies. Students are not accepted into the Honours program in Political Science until their second year in Political Science; an exception is made for those in joint honours programs.

As course and personnel changes may have occurred after this publication was prepared, students should not use it to plan their program of studies without first consulting the Department office for updated information.

3.10.32.5 Political Science Faculty

Chair

Jacob Levy

Director of Graduate Program

Yves Winter

Emeritus Professor

Harold M. Waller

Professors

Arash Abizadeh; Daniel Béland; Éric Bélanger; Mark R. Brawley; Rex Brynen; Elisabeth Gidengil; Terri E. Givens; Juliet Johnson; Jacob T. Levy; Catherine Lu; Christopher Manfredi; T.V. Paul; Vincent Pouliot; Filippo Sabetti; Dietlind Stolle; Narendra Subramanian; Jennifer Welsh.

Associate Professors

Leonardo Baccini; Manuel Balán; Megan Bradley; Erik Kuhonta; Hudson Meadwell; Khalid Medani; Victor Muñoz-Fraticelli; Fernando Nuñez-Mietz; Krzysztof Pelc; Maria Popova; William Clare Roberts; Debra Thompson; Juan Wang; Yves Winter.

Assistant Professors

Yann Allard-Tremblay; Elissa Berwick; Aaron Erlich; Kelly Gordon; Tania Islas Weinstein.

Associate Members

Benjamin Forest; Carola Weil; Daniel Weinstock.

Faculty Lecturer

Daniel Douek

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. These courses should be in different groups, the relevant groups being Canadian Politics, International Relations, Comparative Politics, Political Theory, and Methods.

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.

Course lists for each group of political science courses are provided below.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1

POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 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 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 355	(3)	The Politics of International Law
POLI 358	(3)	Political Economy of International Organizations
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union

POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.32.7 Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, and Political Theory) with the following specifications.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits, provided courses are taken in both Developed Areas and Developing Areas.

No more than 12 of the 36 credits may be at the 200 level. No more than 3 credits at the 200 level may be in any given group.

3 credits should be taken at the 400 level at McGill rather than as transfer credits.

In the final year, no course used toward the program requirements may be below the 300 level.

No more than 12 POLI transfer credits can be used toward the program requirements.

Advising Information

In the first year of the program (U1), students are advised to select their courses from at least three of the five main groups of courses in political science. U1 students should normally take courses at the 200 level only. However, those who have already completed the 200-level prerequisite for courses may take 300-level courses.

Course lists for each group of political science courses are provided below.

NOTE: POLI 200, 210, 311 and 461 can also be used towards this program.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 317	(3)	The Politics of Race in Canada
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 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics

POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 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 352	(3)	International Policy/Foreign Policy: Africa

POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 355	(3)	The Politics of International Law
POLI 358	(3)	Political Economy of International Organizations
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science

POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.32.8 Bachelor of Arts (B.A.) - Honours Political Science (54 credits)

The Honours Political Science program consists of 54 credits, of which 48 must be in Political Science. The remaining 6 credits must be in related social studies disciplines and must be taken at the 300 or 400 level.

To enter, remain and graduate in Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 in general.

To be awarded First Class Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. 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 Honours at graduation, students must be registered in the Honours program in their final year. At graduation, students' Honours standing will be determined by their overall record in the Honours program.

Students may enter the Honours program at the start of U2.

Required Course (3 credits)

POLI 210*	(3)	Political Science Research Methods
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* 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 54-credit program requirement.

Complementary Courses (51 credits)

51 credits of complementary courses selected with the following specifications:

45 credits of Political Science (POLI) and 6 credits at the 300 or 400 level in related disciplines* (e.g., Anthropology (ANTH), Canadian Studies (CANS), East Asian Studies (EAST), Economics (ECON), Geography (GEOG), History (HIST), Middle East Studies (MEST), Philosophy (PHIL), Psychology (PSYC), Quebec Studies (QCST), Sociology (SOCI), World Islamic and Middle East Studies (WIMES)). This 6-credit requirement is waived for students who have completed, in addition to the Political Science Honours program, 2 minor programs or 1 major program in Arts but outside the discipline of Political Science.

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, Quebec Studies, World Islamic and Middle East Studies etc.) only courses with the program's subject code (CANS, EAST, QCST, WIMES) are eligible to be counted toward the Honours program.

6 credits in methods courses at the 300 or 400 level.

3 credits at the 200 level in each of four fields - Political Theory, Comparative Politics, International Relations, Canadian Politics.

A maximum of 15 credits may be at the 200 level, including POLI 210.

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 courses must be at the 400 level or above including one 500-level Honours Seminar. Refer to the lists below for course choices at the 400 and 500 levels in each field.

No more than 15 Political Science transfer credits can be used toward the program requirements, and no more than 3 non-Political Science transfer credits (at the 300 level or greater in a social science field) can be used toward the non-Political Science complementary program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics

POLI 336	(3)	Le Québec et le Canada
POLI 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 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 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 355	(3)	The Politics of International Law
POLI 358	(3)	Political Economy of International Organizations
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics

POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.32.9 Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours Program components from two Arts disciplines.

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

To be awarded First Class Joint Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are

counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide", which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Joint Honours at graduation, students must be registered in the Joint Honours program in their final year. At graduation, students' Joint Honours standing will be determined by their overall record in the Joint Honours program. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Students may enter the Joint Honours program in U1.

Required Course (3 credits)

POLI 210* (3) Political Science Research Methods

* The POLI 210 requirement is waived for students admitted to McGill BEFORE Fall 2017. The POLI 210 requirement is 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.

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications.

3 credits in methods courses at the 300 or 400 level.

No more than one-half (18 credits) 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 21 credits. Refer to the lists below for course choices in each field.

One quarter (9 credits) of political science credits must be at the 400-level or above including one 500-level Honours Seminar. Refer to the lists below for course choices at the 400 and 500 levels in each field.

No more than 12 credits of political science courses (including POLI 210) may be at the 200 level. No more than 3 credits may be taken at the 200 level in each of the five groups of courses (Canadian Politics, International Relations, Comparative Politics (Developed Areas and Developing Areas), Political Theory, Methods). Students may not take 200-level political science courses in their final year.

No more than 12 POLI transfer credits can be used toward the program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism

POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 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 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

3.10.33 Psychology (PSYC)

3.10.33.1 Location

2001 McGill College, Room 740
 Montreal QC H3A 1G1
 Telephone: 514-398-6100
 Email: undergrad.psych@mcgill.ca
 Website: mcgill.ca/psychology

3.10.33.2 About Psychology

The Psychology Department offers programs in both Arts and Science. For a list of teaching staff and an outline of the nature of Psychology, refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.33: Psychology \(PSYC\)](#). Programs that may be taken by Arts students are described in this section, while those listed under the Faculty of Science may be taken by Science students only.



Note: The B.A. (or B.Sc.) with a major concentration or honours degree in Psychology is not a professional qualification. It does not qualify the individual to carry on professional work in psychology.

3.10.33.3 Information Meetings for New Students

All new students entering the Psychology undergraduate program should attend an information meeting prior to registration. Newly admitted students from CEGEPs should attend the information session in June. There will be an identical information session in August for all other students, and for any CEGEP students who could not attend the earlier meeting. Please check the Psychology Department [website](#) for the specific dates. Students accepted into the Bachelor of Science program must attend a different information meeting from those in the Faculty of Arts, (for details, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.33: Psychology \(PSYC\)](#)). At this meeting, Paola Carvajal, the Academic Adviser, will explain the requirements of the Department's programs. Incoming students will have an opportunity to ask questions and receive advice on how to plan their courses.

Entering students can bring a copy of their collegiate transcript(s). They should also consult this publication and a preliminary Class Schedule before this advising session.

Students entering the Psychology program in January are strongly encouraged to visit the Academic Adviser, Paola Carvajal, in early December to clarify their course selection.

3.10.33.4 Bachelor of Arts (B.A.) - Minor Concentration Psychology (18 credits)

Students registered in a Bachelor of Arts program in another department may pursue the Minor Concentration Psychology. This Minor concentration is expandable for students who may wish to transfer into the Major Concentration Psychology at a later date.

Required Background

Students are required to complete a course in Introductory Psychology either at the collegial or freshman level. Students who have not previously completed CEGEP Psychology 350-101 or 350-102 or equivalent are required to complete PSYC 100 during the first year of study at McGill.

Program Prerequisite

PSYC 100	(3)	Introduction to Psychology
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Complementary Courses (18 credits)

6 credits selected from:

PSYC 204	(3)	Introduction to Psychological Statistics
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

12 credits in Psychology at the 300 level or above.

3.10.33.5 Bachelor of Arts (B.A.) - Minor Concentration Behavioural Science (18 credits)

Restricted to students registered in the Major Concentration Psychology.

Students who wish to go on to graduate training in Psychology, and those who may wish to apply for membership in the Ordre des Psychologues du Québec (once the additional graduate requirements of the Ordre have been completed), are advised to take the following supplementary Minor Concentration Behavioural Science.

Note that this counts as a second minor concentration, and is open only to students registered in the Major Concentration Psychology. A first minor concentration must also be completed in a discipline other than Psychology.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

3 credits in Psychology at the 400 or 500 level

9 credits at the 300 level or above from one or more of the following disciplines: Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCI).

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition

PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

3.10.33.6 Bachelor of Arts (B.A.) - Major Concentration Psychology (36 credits)

The Major Concentration Psychology does not provide sufficient undergraduate background to enable students to apply for membership in the Ordre des Psychologues du Québec, even once the additional graduate requirements of the Ordre have been completed. Students who are interested in practising psychology in Quebec are advised to also complete the Minor Concentration Behavioral Science.

Recommended Background for Quebec CEGEP Students

Students planning to apply to a Bachelor of 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 Arts students are required to complete BIOL 115 or BIOL 111 or BIOL 112 during their first year. Students who have completed one of Biology 101-301, 101-401, 101-911, or 101-921 in CEGEP are exempt from the Biology requirement.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

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 exempt from PSYC 204 replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCL).

Bachelor of Arts and Science students exempt from PSYC 204 replace this course with 3 credits in Psychology (PSYC) at the 300 level or above.

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

** Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above apart from PSYC 305 in their U1 year to be eligible for admission. Students who have been exempted from PSYC 204 are advised to complete PSYC 305 in U1. All students must complete a minimum of 27 graded credits in U1 to be eligible for admission to the Honours program. For additional information about applying to Honours, please refer to the Honours program description.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

6 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests

PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

3.10.33.7 Bachelor of Arts (B.A.) - Honours Psychology (60 credits)

Honours Psychology prepares students for graduate study, and so emphasizes practice in the research techniques which are used in graduate school and professionally later on. Students are normally accepted into Honours at the beginning of their U2 year, and the two-year sequence of Honours courses continues through U3.

Admission to Honours is selective. Students with a cumulative grade point average of 3.00 or better are eligible to apply; since enrolment is limited the usual GPA for admission to this program is 3.50. Students must complete a minimum of 27 graded credits in two terms in their U1 year to be eligible to apply to the Honours program. These credits must include: PSYC 204, PSYC 211, PSYC 212, PSYC 213, and PSYC 215. Students are advised to complete PSYC 305 in their U1 year to apply to the Honours program. Once in the Honours program, the student must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Students in the Honours program 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.

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

Students planning on entering the Honours Psychology program are required to complete Introductory Psychology at the collegial level or in their first year of study at McGill University. Students are also strongly encouraged to complete a course in Human Biology.

Students who have completed 350-101 or 350-102 in CEGEP are exempt from the PSYC 100 requirement.

Bachelor of Arts students should complete BIOL 115 or BIOL 111 or BIOL 112 during their first year, unless they have already completed one of Biology 101-301, 101-401, 101-911, or 101-921 in CEGEP.

BIOL 111	(3)	Principles: Organismal Biology
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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 (30 credits)

30 credits of complementary courses with the following specifications:

12 credits to be selected from the list below and any Psychology course at the 500 level.

PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 483	(3)	Seminar in Experimental Psychopathology
PSYC 495	(6)	Psychology Research Project 2
PSYC 496	(6)	Senior Honours Research 1
PSYC 497	(6)	Senior Honours Research 2
PSYC 498D1	(4.5)	Senior Honours Research
PSYC 498D2	(4.5)	Senior Honours Research

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

6 credits in Psychology from List A:

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence

PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 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 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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

6 credits at the 300 level or above selected from the following disciplines:

Anthropology (ANTH), Linguistics (LING), Psychology (PSYC), or Sociology (SOCL).

3.10.33.8 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".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

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 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.

3.10.34 Religious Studies (RELG)

3.10.34.1 Location

School of Religious Studies
 William and Henry Birks Building
 3520 University Street
 Montreal QC H3A 2A7
 Telephone: 514-398-4121
 Website: mcgill.ca/religiousstudies

3.10.34.2 About the School of Religious Studies

Cultivating a thorough understanding of the world's religions and the roles of religion throughout history and in contemporary society is at the heart of the School of Religious Studies' teaching at the undergraduate and *graduate levels*. The School takes a multidisciplinary approach to scholarship on a plurality of religions and incorporates a broad range of perspectives and methods. In studying the world's religious traditions, we emphasize the ways in which religious expression and practices are embedded in culture, politics, aesthetics, and social change.

The School of Religious Studies has enjoyed a long history at McGill providing a wide range of programs, including B.A. programs, theological programs, and several specialized graduate degree programs. The School's expertise in world religions engages many methods and disciplines, combining the rigorous and historically focused study of religious traditions and contexts with approaches that explore contemporary expressions of religions. For more on the School's distinctive, holistic approach to the study of religions, please visit [About Us](#).

The School is affiliated with the Montreal Diocesan Theological College of the Anglican Church of Canada, the Presbyterian College Montreal, and the United Theological College of the United Church of Canada. Each of these colleges is located close to campus. In 2013, a landmark gift from the Barbara and Patrick Keenan Foundation launched a series of major new developments including the establishment of the Keenan Chair in Interfaith Studies and a new flagship course, "World Religions and the Cultures They Create" (RELG 208). The gift also funds a number of major fellowships and internships to provide formation and support for graduate and undergraduate students.

The School of Religious Studies is located in the handsome William and Henry Birks Building, erected in 1931, formerly known as Divinity Hall, at 3520 University Street. Besides the usual classrooms, offices, and common rooms, this building accommodates the Birks Heritage Chapel and the Birks Reading Room.

History of the School

During the 19th century, several Theological Colleges in Montreal became affiliated with McGill. In 1912, they formed a Joint Board for the academic study of Theology, leaving each denominational College to provide its own professional training for Christian ministry. This relationship between the Colleges and the University led naturally to the creation in 1948 of a Faculty of Divinity, which assumed the academic functions of the Joint Board. In keeping with this goal the School offers the Bachelor of Theology and several graduate degree programs.

The original Faculty of Divinity taught theological courses for ordinands and also engaged in teaching undergraduates in other faculties a selection of courses of more general interest, such as philosophy and psychology of religion, and comparative religion. This selection grew over the years into the present B.A. Honours, Major, and Minor programs in Religious Studies within the Faculty of Arts. In 1970 the name of the Faculty was changed to the Faculty of Religious Studies in order to reflect the new emphasis on the academic study of religion.

By reason of its close collaboration with the Faculty of Arts, the faculty formally became the School of Religious Studies, within the Faculty of Arts, in 2016. The School offers the Bachelor of Theology (B.Th.) degree, Bachelor of Arts (B.A.) degree programs, and several graduate degree programs.

3.10.34.3 Religious Studies Programs

The School of Religious Studies offers programs leading to the following degrees:

- [section 3.10.34.6: Bachelor of Arts \(B.A.\) in Religious Studies](#)
- [section 3.10.34.7: Bachelor of Theology \(B.Th.\)](#)
- [section 3.10.34.8: Master of Divinity \(M.Div.\)](#)

Prospective students seeking advice should [contact an adviser](#) from the School of Religious Studies.

3.10.34.4 Birks Lectures

An annual series was established in 1950 through the generosity of the late William M. Birks. The lectures are given by distinguished visitors, usually in late September or early October.

The first lecturer was the Right Reverend Leslie Hunter. Subsequent 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, Paul Griffiths, Bernadette J. Brooten, Harvey Cox, John S. Hawley, Gabriel Vahanian, Oliver O'Donovan, Jan Assmann, Donald Lopez, Rémi Brague, David Fergusson, John J. Collins, David Shulman, Talal Asad, Robert L. Wilken, Jens Schröter, and Rachel Fell McDermott.

3.10.34.5 Numata Visiting Professor in Buddhist Studies

In recognition of the strong Buddhist Studies program in the School of Religious Studies, the Numata Foundation has given a 20-year grant to the School to bring a visiting scholar in Buddhist Studies to McGill each year.

The visiting professor teaches one course at the 500 level, gives a public lecture, and is available to students for conferences and consultation.

The first Numata Professor, in 1999–2000, was Dr. Mahinda Deegalle (Ph.D., Chicago), a Theravada Buddhist Sri Lankan monk. Subsequent visiting professors have included John Pettit, Robert Morrison, Thupten Jinpa, Kate Crosby, Ven. Yifa, Robert Kritzer, Andrew Skilton, Joel Tatelman, Miriam Levering, Hiroko Kawanami, Dorji Wangchuk, Martin Adam, Jin Park, Roger Jackson, Burkhard Scherer, Andre van der Braak, Rinpoche Sherpa, Gregory Samuel, Martin Seeger, and Robert Rhodes.

The visiting professor for 2022–2023 will be Lawrence Y.K. Lau.

3.10.34.6 Bachelor of Arts (B.A.) in Religious Studies

Bachelor of Arts (B.A.) in Religious Studies programs explore the many cultural, historical, and political issues related to both Eastern and Western religions, and to religion in a comparative perspective. Majors and minors in World Religions are available, as well as a minor in Religion and Globalization and honours and joint honours programs in Religious Studies. Students frequently combine majors and minors in World Religions with a wide range of other B.A. concentrations, highlighting the importance of the rigorous study of religion to many other areas of inquiry.

Prospective students seeking advice should contact an adviser from the School of Religious Studies.

3.10.34.7 Bachelor of Theology (B.Th.)

The Bachelor of Theology program offers academic instruction in the disciplines of Theology, Biblical Studies, and Church History, and provides a more intensive study of Christianity than is available in the Bachelor of Arts degree programs.

Students interested in completing a Major Concentration, Minor Concentration, Honours, or Joint Honours in the broader field of Religious Studies should pursue a Bachelor of Arts program.

The Bachelor of Theology (B.Th.) may be taken as a first or second baccalaureate degree.

As a first degree (90 or 120 credits), it offers a more intensive study of Christianity than is available within the Bachelor of Arts (B.A.) programs, while also permitting the student to combine this specialization with other academic or professional interests, whether in Religious Studies or in other faculties and schools of the University.

As a second bachelor's degree (60 credits), the Bachelor of Theology (B.Th.) program is designed primarily for those who intend to qualify for the ordained ministry in a Christian denomination, although here too, some students pursue the degree out of an interest in the academic study of theology for its own sake, or with a view to combining these studies with proficiency gained in other disciplines. The 60-credit program forms the core of the Bachelor of Theology (B.Th.) degree.

The Bachelor of Theology program can be pursued independently, or in affiliation with one of the three Theological Colleges affiliated with McGill University in the Montreal School of Theology. Those studying for the ordained ministry normally pursue the Bachelor of Theology (B.Th.) as part of the Master of Divinity (M.Div.) program offered by the colleges of the Montreal School of Theology:

- Montreal Diocesan Theological College (Anglican Church of Canada)
- Presbyterian College (Presbyterian Church in Canada)
- United Theological College (United Church of Canada)

Tuition Fees and Funding

Information concerning current tuition fees can be found at mcgill.ca/student-accounts. Applicants for admission to one of the affiliated Colleges should contact the institution concerned for information regarding College-related fees.

ATS Accreditation

The B.Th. program offered by McGill is applicable to the M.Div. program offered by the Theological Colleges. The M.Div. is fully accredited by the Association of Theological Schools in the U.S. and Canada (ATS).

Evaluation

Competence in a course may be determined by examinations and/or essays, or by other means chosen by the instructor and approved by the Director.

Graduation Requirements

1. The B.Th. is either a 120-credit program (if you were admitted from outside Quebec and without a prior Bachelor's degree), a 90-credit program (if you were admitted on the basis of a Quebec DCS/DEC or equivalent), or a 60-credit program (if you were admitted on the basis of a recognized bachelor's degree).
2. Qualification for the degree must include Satisfactory Standing (a grade of C or better) in all required courses and the complementary courses specified in Year 3, and the accumulation of enough acceptable credits to make a total of either 60, 90, or 120 credits. It should be noted that if you take the B.Th. program as part of the M.Div. program, you need to maintain a minimum CGPA of 2.5 to be eligible for the M.Div. degree.
3. Normally, the program credits must be earned within five years from the date of entrance.

3.10.34.7.1 Admission Requirements and Application Procedures

The **B.Th. program** has three points of entry:

1. To enter the 120-credit degree program from outside Quebec, you must hold a high school diploma, unless you qualify as a mature student. A maximum of 60 credits from another institution of higher learning can be considered for transfer into the 120-credit program.
2. To enter the 90-credit first-degree program, you are expected to have completed the Diploma of Collegial Studies (DCS) from a Quebec CEGEP with a minimum average Cote R of 24, or the equivalent elsewhere. A maximum of 30 credits from another institution of higher learning can be considered for transfer into this program.
3. To enter the 60-credit program, you must have completed a B.A. or other bachelor's degree with a minimum CGPA of 2.7 (B-). No credits can be transferred from another institution of higher learning into the 60-credit program.

Any McGill student in good Standing, with a minimum of 30 credits, may apply for transfer from their current degree program into the B.Th. program. B.Th. students entering the 120- or 90-credit program are free to pursue minors in other departments, schools, or faculties, in consultation with their B.Th. adviser(s).

The B.Th. program extends over three academic years of full time studies for those admitted with a Diploma of Collegial Studies and over two academic years for those admitted with a Bachelor's degree. For all other students it requires four years. The normal load consists of five 3-credits courses (15 credits) each term.

Mature Students Admissions Policy

Prerequisite courses and McGill's competitive admission process:

- Two courses appropriate to the proposed area of study, each with a minimum grade of B (or equivalent)

The Mature Student category is available to applicants who:

- do not possess a conventional basis of admission such as a high school or CEGEP diploma; or
- have academic credentials that do not meet the minimum requirements and have no academic studies within the last five years that would constitute a basis for admission.

Applicants with regular academic studies completed during the last five years must apply under the regular high school, CEGEP, or university transfer categories.

Conditions for eligibility:

- Canadian citizenship or Canadian permanent residency;
- 23 years of age or older at time of registration (21 years of age for the Faculties of Management and Music);
- No college- or university-level studies within the last five years that would constitute a basis for admission;
- Two letters of reference;
- Letter of Intent, including description of previous educational experiences;
- Complete record of employment and personal history, highlighting points relevant to the application;
- Demonstrate academic potential by successfully completing a minimum number of appropriate courses within the three-year period prior to admission. These courses, which may be completed at CEGEP or university, will also fulfill prerequisites for the intended program.

Each student is considered on an individual basis, based on all elements in the file.

310.347.1.1 Application Procedures

The online application process should take about 20 minutes and a credit card is required for payment of the application fee. Once completed, the online application form may be printed for your own records.

Required Documents

- Transcript(s) of all previous post-secondary academic work. Applicants to the B.Th. Program as a first degree must submit high school and/or CEGEP transcripts. Copies of your **unofficial transcript(s)** can be uploaded to complete your application. **Official transcript(s)** are required only if you are admitted, and must be mailed directly from the institution to the mailing address below.
- Personal Statement, according to the directions in the application. Please download and use the [Personal Statement Form](https://mcgill.ca/religiousstudies/theology/bth) (available at mcgill.ca/religiousstudies/theology/bth).

After your application has been received, you will be given access to your Minerva account, where you will be able to upload your **unofficial transcripts** and **personal statement** to complete your application. You can find full instructions on how to prepare, upload, and submit relevant documents at mcgill.ca/applying/nextsteps/documents.

- 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](https://mcgill.ca/religiousstudies/theology/bth) (available at 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.

310.347.1.2 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.

3.10.34.7.1.3 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 [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 University prior to the published course withdrawal deadline, you must withdraw from all courses via [Minerva](#). In addition, you must contact the Chair of the Bachelor of Theology (B.Th.) Committee and complete the necessary withdrawal form.

Course Selection

You are to seek the guidance of your adviser(s) when registering for courses. You must have your courses approved and your B.Th. Audit Sheet signed by the Chair of the Bachelor of Theology (B.Th.) Committee before classes begin. If you are affiliated with one of the Theological Colleges, your B.Th. Audit Sheet must first be approved and signed by your College adviser.

3.10.34.7.3 Academic Standing and Course Loads**Satisfactory Standing**

You enter the University in Satisfactory Standing and remain in this Standing unless your grade point average (GPA) or cumulative grade point average (CGPA) for any year drops below 2.00. The normal course load in any academic session is five courses per term (15 credits per term). If you have a high GPA (at least 3.00), you may take more than the normal five courses per term.

Probationary Standing

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 readmission as a probationary student with special permission from the B.Th. Committee and the Director. If you are a student who is readmitted on Probationary Standing, you may have additional restrictions or conditions to meet over and above those required of students referred to above under "Probationary Standing."

In the event that you are placed in Unsatisfactory Standing for a second time, you must withdraw permanently.

Incomplete Standing

If, in any year, your record shows a mark of K, K*, L, L*, or &&, you will have no GPA or CGPA calculated for that year, and your record will show "Standing Incomplete." After completing the appropriate course requirements, your GPA and CGPA will be calculated and your Standing determined as described above.

If your Standing is still "Incomplete" at the time of registration for the next academic year, you must obtain a *Letter of Permission to Register* from the Chair of the B.Th. Committee.

3.10.34.8 Master of Divinity (M.Div.)

The **Master of Divinity (M.Div.)** degree is offered by the Colleges affiliated with the School of Religious Studies through the Montreal School of Theology. Students who have completed a first degree prior to the B.Th. with a minimum CGPA of 2.7 are eligible to apply the B.Th. degree toward the Master of Divinity (M.Div.) degree conferred by the Theological Colleges.

The Master of Divinity Program is divided into two years of foundational studies at McGill's School of Religious Studies (i.e., the Bachelor of Theology degree) and a year of professional studies, known as the "In-Ministry Year," offered jointly by the three affiliated theological Colleges under the auspices of the Montreal School of Theology. The program is supervised by the Academic Committee of the Montreal School of Theology, on which all three Colleges and McGill's School of Religious Studies are represented.

Students from the affiliated colleges may be eligible for bursary assistance if they are properly registered candidates for the ministry. Information about church requirements and the professional year should be sought from the principals of the appropriate colleges.

One biblical language, usually Greek, is required by some of the colleges. Ministerial candidates should consult with the College advisers regarding biblical language requirements.

Prospective candidates for ordination with a B.A. Honours or Major in Religious Studies and a CGPA of 3.3 (B+) may apply for the Master of Sacred Theology (S.T.M.) degree upon completion of the professional In-Ministry Year (IMY).

Applicants for the M.Div. program must apply to the McGill B.Th. program, as well as to one of the Theological Colleges. College application forms should be requested from the Colleges themselves.

The Montreal School of Theology
(formerly the Joint Board of Theological Colleges)
École théologique de Montréal (affiliée à l'Université McGill)
3475 University Street
Montreal QC H3A 2A8

Montreal Diocesan Theological College
Séminaire Diocésain de Montréal
3473 University Street
Montreal QC H3A 2A8

The Presbyterian College
Le Collège Presbytérien
3495 University Street
Montreal QC H3A 2A8

The United Theological College/*Le séminaire Uni*
at Montreal Diocesan College/au Collège Diocésain de Montréal
3475 University Street
Montreal QC H3A 2A8

3.10.34.9 Religious Studies Faculty**Director**

Garth W. Green

Graduate Program Director and Admissions Chair

W.J. Torrance Kirby

Administrative Officer

Francesca Maniaci

Emeritus Professors

Douglas J. Hall; Donna Runnalls; Frederik Wisse; Katherine K. Young.

Professor (Post-Retirement)

G. Victor Hori.

Professors

Douglas B. Farrow; W.J. Torrance Kirby; Gerbern S. Oegema; Armando Salvatore; Arvind Sharma.

Associate Professors

Lara Braitstein; Daniel Cere; Gaëlle Fiasse; Garth W. Green; Ian H. Henderson; Hillary Kaell; Jim Kanaris; Patricia G. Kirkpatrick; Andrea M. Pinkney; Heidi Wendt.

Assistant Professors

Mikaël Baeur; Rongdao Lai; Samuel Nelson; Hamsa Stainton.

Numata Visiting Professor

Lawrence Y.K.Lau.

Faculty Lecturer

Pablo Irizar Carrillo.

Adjunct Faculty

Chukwuemeka Atansi; Brian A. Butcher; Alyson Huntly; Thupten Jinpa Langri; Lucille Marr; Maylanne Maybee; Sean Joseph McGrath; Jesse Zink.

Associate Member

Eric Caplan; Robert Wisnovsky.

Affiliate Members

Hilary Boget-Winkler; Pierpaolo Ciccarelli; Roland De Vries; George Di Giovanni; Karen Finch; Roberto Formisano; Anne S. Leahy; Heather McCance; Kieko Obuse; Susan J. Palmer; Angelika Piché; Kieko Obuse; Benjamin Schewel; John Simons.

3.10.34.10 Bachelor of Arts (B.A.) - Minor Concentration Religious Studies (18 credits)

The B.A; Minor Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Required Course (3 credits)

RELG 207 (3) Introduction to the Study of Religions

Complementary Courses (15 credits)

6 credits of Introductory Courses at the 200 level.

ANTH 209	(3)	Anthropology of Religion
CATH 200	(3)	Introduction to Catholicism
CATH 220	(3)	Selected Topics in Catholic Studies
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 245	(3)	Jewish Life in the Islamic World
JWST 254	(3)	The Jewish Holy Days
JWST 261	(3)	History of Jewish Philosophy and Thought
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel

RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 205	(3)	Death and Dying
RELG 210	(3)	Jesus of Nazareth
RELG 211	(3)	Theology through Fiction
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 288	(3)	Introduction to Sikhism

9 credits of Advanced Courses at the 300 level or higher.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Ethics
CATH 320	(3)	Catholicism and Modernity
CATH 325	(3)	Mystery and the Imagination
CATH 330	(3)	Catholicism in a Global Context
CATH 335	(3)	Confessions of Saint Augustine
CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
CATH 375	(3)	Topics in Catholic Theology
CATH 460	(3)	Catholic Studies Seminar
HIST 427	(3)	The Hasidic Movement
ISLA 310	(3)	Women in Islam
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 382	(3)	Jews, Judaism and Social Justice
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 310	(3)	Canadian Church History
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 315	(3)	Special Topics in Religion 1
RELG 316	(3)	New Religious Movements
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 322	(3)	Church and Empire to 1300

RELG 323	(3)	Church and State since 1300
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues
RELG 337	(3)	Themes in Buddhist Studies
RELG 338	(3)	Women and the Christian Tradition
RELG 341	(3)	Introduction: Philosophy of Religion
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 358	(3)	Religion and Cinema in India
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 368	(3)	Japanese Religions in Pop Culture
RELG 369	(3)	Tibetan Buddhism
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 373	(3)	Christian Ethics of Love
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 379	(3)	Eastern Orthodox Christianity
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 384	(3)	Religion and Public Policy
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 398	(3)	North American Christianity
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 419	(3)	Religious Heritage and Tourism
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Advanced Theology
RELG 440	(3)	Global Islam
RELG 442	(3)	Pure Land Buddhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 445	(3)	Modern Buddhism

RELG 450	(3)	The Way of the Kami
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

3.10.34.11 Bachelor of Arts (B.A.) - Major Concentration Religious Studies (36 credits)

The B.A; Major Concentration in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions.

Required Courses (6 credits)

RELG 207	(3)	Introduction to the Study of Religions
RELG 456	(3)	Theories of Religion

Complementary Courses (30 credits)

3-9 credits of Introductory Courses at the 200 level.

ANTH 209	(3)	Anthropology of Religion
CATH 200	(3)	Introduction to Catholicism
CATH 220	(3)	Selected Topics in Catholic Studies
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies

JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 245	(3)	Jewish Life in the Islamic World
JWST 254	(3)	The Jewish Holy Days
JWST 261	(3)	History of Jewish Philosophy and Thought
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 205	(3)	Death and Dying
RELG 210	(3)	Jesus of Nazareth
RELG 211	(3)	Theology through Fiction
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 279	(3)	New Testament Greek 1
RELG 280	(3)	New Testament Greek 2
RELG 288	(3)	Introduction to Sikhism

0-12 credits of Classical language courses.

CLAS 210	(3)	Introductory Latin 1
CLAS 212	(3)	Introductory Latin 2
CLAS 215	(6)	Intensive Introductory Latin
CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
CLAS 225	(6)	Intensive Introductory Ancient Greek
CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 381	(3)	Advanced New Testament Greek
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 491	(3)	Biblical Hebrew Narratives
RELG 492	(3)	Biblical Hebrew Poetry

15-21 credits of Advanced Courses at the 300 level or higher.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Ethics
CATH 320	(3)	Catholicism and Modernity
CATH 325	(3)	Mystery and the Imagination
CATH 330	(3)	Catholicism in a Global Context
CATH 335	(3)	Confessions of Saint Augustine
CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
CATH 375	(3)	Topics in Catholic Theology
CATH 460	(3)	Catholic Studies Seminar
HIST 427	(3)	The Hasidic Movement
ISLA 310	(3)	Women in Islam
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 382	(3)	Jews, Judaism and Social Justice
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 310	(3)	Canadian Church History
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 315	(3)	Special Topics in Religion 1
RELG 316	(3)	New Religious Movements

RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues
RELG 337	(3)	Themes in Buddhist Studies
RELG 338	(3)	Women and the Christian Tradition
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 358	(3)	Religion and Cinema in India
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 368	(3)	Japanese Religions in Pop Culture
RELG 369	(3)	Tibetan Buddhism
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 373	(3)	Christian Ethics of Love
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 379	(3)	Eastern Orthodox Christianity
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 398	(3)	North American Christianity
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 410	(3)	Paul and His Legacy
RELG 419	(3)	Religious Heritage and Tourism
RELG 423	(3)	Reformation Thought

RELG 434	(3)	Advanced Theology
RELG 440	(3)	Global Islam
RELG 442	(3)	Pure Land Buddhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 445	(3)	Modern Buddhism
RELG 450	(3)	The Way of the Kami
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 459	(3)	Bhagavadgita and Mahabharata
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

3.10.34.12 Bachelor of Arts (B.A.) - Honours Religious Studies (60 credits)

The B.A.; Honours in Religious Studies focuses on the methodological approaches to the study of religious traditions, including the languages, teachings, and history of those traditions. A 6-credit Honours thesis related to the student's area of focus must be submitted. The Honours thesis topic must be approved by a Religious Studies adviser. A supervisor will be appointed to guide the student.

Students must maintain a program GPA and a CGPA of 3.00 (or 3.50 for First Class Honours).

Required Courses (12 credits)

RELG 207	(3)	Introduction to the Study of Religions
RELG 456	(3)	Theories of Religion
RELG 490	(6)	Honours Thesis

Complementary Courses (48 credits)

3-9 credits from Introductory Courses at the 200 level.

ANTH 209	(3)	Anthropology of Religion
CATH 200	(3)	Introduction to Catholicism
CATH 220	(3)	Selected Topics in Catholic Studies
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
JWST 201	(3)	Jewish Law
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 245	(3)	Jewish Life in the Islamic World
JWST 254	(3)	The Jewish Holy Days
JWST 261	(3)	History of Jewish Philosophy and Thought
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 205	(3)	Death and Dying
RELG 210	(3)	Jesus of Nazareth
RELG 211	(3)	Theology through Fiction
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 288	(3)	Introduction to Sikhism

0-12 credits of Classical language courses.

CLAS 210	(3)	Introductory Latin 1
CLAS 212	(3)	Introductory Latin 2
CLAS 215	(6)	Intensive Introductory Latin
CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
CLAS 225	(6)	Intensive Introductory Ancient Greek
CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2

CLAS 326	(3)	Intermediate Ancient Greek 2: Selections
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 381	(3)	Advanced New Testament Greek
RELG 390D1	(3)	Elementary Biblical Hebrew
RELG 390D2	(3)	Elementary Biblical Hebrew
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2
RELG 491	(3)	Biblical Hebrew Narratives
RELG 492	(3)	Biblical Hebrew Poetry

33-39 credits of Advanced courses at the 300 level or higher.

CATH 310	(3)	Catholic Intellectual Traditions
CATH 315	(3)	Catholicism and Ethics
CATH 320	(3)	Catholicism and Modernity
CATH 325	(3)	Mystery and the Imagination
CATH 330	(3)	Catholicism in a Global Context
CATH 335	(3)	Confessions of Saint Augustine
CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
CATH 375	(3)	Topics in Catholic Theology
CATH 460	(3)	Catholic Studies Seminar
HIST 427	(3)	The Hasidic Movement
ISLA 310	(3)	Women in Islam
JWST 314	(3)	Denominations in North American Judaism
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 382	(3)	Jews, Judaism and Social Justice
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 310	(3)	Canadian Church History

RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 315	(3)	Special Topics in Religion 1
RELG 316	(3)	New Religious Movements
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues
RELG 337	(3)	Themes in Buddhist Studies
RELG 338	(3)	Women and the Christian Tradition
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 358	(3)	Religion and Cinema in India
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 368	(3)	Japanese Religions in Pop Culture
RELG 369	(3)	Tibetan Buddhism
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 373	(3)	Christian Ethics of Love
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 384	(3)	Religion and Public Policy
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 398	(3)	North American Christianity
RELG 399	(3)	Christian Spirituality

RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 410	(3)	Paul and His Legacy
RELG 419	(3)	Religious Heritage and Tourism
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Advanced Theology
RELG 440	(3)	Global Islam
RELG 442	(3)	Pure Land Buddhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 445	(3)	Modern Buddhism
RELG 450	(3)	The Way of the Kami
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 459	(3)	Bhagavadgita and Mahabharata
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective
RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

3.10.34.13 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies (36 credits)

The B.A.; Joint Honours - Religious Studies Component focuses on the methodological approaches to the study of religious traditions, including the teachings, and history of those traditions.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Required Courses (9 credits)

RELG 207	(3)	Introduction to the Study of Religions
RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

Complementary Courses (27 credits)

6 credits from Core courses:

CATH 220	(3)	Selected Topics in Catholic Studies
RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality

21 credits from Advanced courses at the 300 level or higher:

CATH 335	(3)	Confessions of Saint Augustine
CATH 375	(3)	Topics in Catholic Theology
RELG 300	(3)	Second Temple Judaism
RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 315	(3)	Special Topics in Religion 1
RELG 316	(3)	New Religious Movements
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 331	(3)	Religion and Globalization

RELG 332	(3)	Conversations Across World Religions
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues
RELG 337	(3)	Themes in Buddhist Studies
RELG 338	(3)	Women and the Christian Tradition
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions
RELG 358	(3)	Religion and Cinema in India
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 368	(3)	Japanese Religions in Pop Culture
RELG 369	(3)	Tibetan Buddhism
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 372	(3)	Hindu Goddesses
RELG 373	(3)	Christian Ethics of Love
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism
RELG 399	(3)	Christian Spirituality
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 419	(3)	Religious Heritage and Tourism
RELG 423	(3)	Reformation Thought
RELG 434	(3)	Advanced Theology
RELG 440	(3)	Global Islam
RELG 442	(3)	Pure Land Buddhism
RELG 444	(3)	Indian Ocean Religious Networks
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 453	(3)	Vajrayana Buddhism
RELG 454	(3)	Modern Hindu Thought
RELG 455	(3)	Religion and the Performing Arts in South India
RELG 459	(3)	Bhagavadgita and Mahabharata
RELG 470	(3)	Theological Ethics
RELG 479	(3)	Christianity in Global Perspective

RELG 502	(3)	Greco-Roman Judaism
RELG 532	(3)	History of Christian Thought 1
RELG 533	(3)	History of Christian Thought 2
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 545	(3)	Ramayana: Multiple Lives
RELG 546	(3)	Indian Philosophy
RELG 547	(3)	Special Topics in Hinduism
RELG 548	(3)	Indian Buddhist Philosophy
RELG 549	(3)	Japanese Buddhism in Historical Context
RELG 551	(3)	Special Topics in Buddhism
RELG 552	(3)	Advaita Vedanta
RELG 556	(3)	Issues in Buddhist Studies
RELG 558	(3)	Indian Tantric Traditions
RELG 559	(3)	Caste and Dalits: Historical and Political Perspectives
RELG 560	(3)	Buddhist Poetry
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics
RELG 573	(3)	Religions in Global Society

3.10.34.14 Bachelor of Theology (B.Th.) - Religious Studies (120 credits)

The Bachelor of Theology (B.Th.) degree requires 120 credits. Many students enter the program with advanced standing, and their credit requirement for the degree is adjusted accordingly. All students must discuss their course selection with their program adviser.

Students admitted on the basis of a bachelor degree will have advanced standing and should consult their program adviser to determine any course equivalencies completed during their first degree and how these affect their program requirements for the Bachelor of Theology.

The Bachelor of Theology degree serves three types of students: those seeking a classically oriented undergraduate program in the humanities that allows them to focus eventually on theology and related disciplines (90/120 credits); those who already have a degree but desire to add this competency, whether out of personal interest or with a view to graduate research in a theological discipline (60 credits); and those who not only desire but require it for the sake of a subsequent professional degree such as the Master of Divinity.

The Bachelor of Theology engages students in some of life's biggest questions and some of the world's most influential literature. Those doing 90 or more credits can (schedules permitting) add a Minor Concentration program in some other desired discipline or field; those who enter the program at Year 0 can add two Minor Concentrations offered by the Faculty of Arts and the Faculty of Science.

The normal course load in the degree for full-time students is 15 credits per term, five 3-credit courses. By permission of the Chair of the B.Th. Committee, students may also enroll for courses at any university in the province of Quebec. For further information, see [University Regulations and Resources > Registration > Quebec Inter-University Transfer Agreement > Quebec Inter-University Transfer Agreement: McGill Students](#).

Professional and vocational courses (e.g., leading to ordination) are available through the In-Ministry Year (Master of Divinity (M.Div.)) upon the completion of the B.Th. degree.

Required Courses (33 credits)

RELG 302	(3)	Literature of Ancient Israel 1
RELG 303	(3)	Literature of Ancient Israel 2
RELG 309	(3)	World Religions and Cultures They Create
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 333	(3)	Principles of Theology
RELG 341	(3)	Introduction: Philosophy of Religion

RELG 434	(3)	Advanced Theology
RELG 470	(3)	Theological Ethics

Complementary Courses (12-51 Credits)

Students with advanced standing take the minimum number of complementary credits, which must be at the 300 level or above from the following.

Philosophy

0-6 credits from:

PHIL 200	(3)	Introduction to Philosophy 1
PHIL 230	(3)	Introduction to Moral Philosophy 1
RELG 321	(3)	Western Intellectual Tradition
RELG 380	(3)	Religion, Philosophy, Modernity

Theology

3-6 credits from:

CATH 310	(3)	Catholic Intellectual Traditions
RELG 211	(3)	Theology through Fiction
RELG 334	(3)	Theology of History
RELG 336	(3)	Contemporary Theological Issues

Bible (Old Testament)

3-6 credits from:

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 407	(3)	The Writings
RELG 408	(3)	The Prophets
RELG 491	(3)	Biblical Hebrew Narratives
RELG 492	(3)	Biblical Hebrew Poetry

Bible (New Testament)

3-6 credits from:

CLAS 220	(3)	Introductory Ancient Greek 1
CLAS 222	(3)	Introductory Ancient Greek 2
RELG 210	(3)	Jesus of Nazareth
RELG 279	(3)	New Testament Greek 1
RELG 280	(3)	New Testament Greek 2
RELG 326	(3)	Christians in the Roman World
RELG 381	(3)	Advanced New Testament Greek
RELG 410	(3)	Paul and His Legacy
RELG 411	(3)	New Testament Exegesis
RELG 482	(3)	Exegesis of Greek New Testament

Church History

3-6 credits from:

CATH 330	(3)	Catholicism in a Global Context
RELG 310	(3)	Canadian Church History
RELG 338	(3)	Women and the Christian Tradition
RELG 399	(3)	Christian Spirituality
RELG 423	(3)	Reformation Thought
RELG 498	(3)	Special Studies

Comparative Religion

0-6 credits from:

ISLA 200	(3)	Islamic Civilization
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
JWST 382	(3)	Jews, Judaism and Social Justice
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 288	(3)	Introduction to Sikhism
RELG 348	(3)	Classical Hinduism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 353	(3)	Gandhi: His Life and Thought
RELG 354	(3)	Chinese Religions

Ethics

0-3 credits from:

CATH 340	(3)	Catholicism and Public Policy
CATH 370	(3)	Topics in Catholic Studies
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 373	(3)	Christian Ethics of Love
RELG 376	(3)	Religious Ethics

0-12 credits of undergraduate RELG or CATH courses (for students who do not have advanced standing that enter program at Year 0).

Elective Courses (15-36)

15-36 credits chosen from Arts or Science disciplines.

Students with advanced standing take the minimum number of elective credits.

Elective credits may be applied to any Minor Concentration available in Arts or Science other than Religious Studies (see specific Minor Concentration regulations)

3.10.34.15 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. Alanna Watt
Life Sciences Complex, Room 265
Telephone: 514-398-2806
Email: alanna.watt@mcgill.ca

Nancy Nelson
Stewart Biology Building, Room N7/9B
Telephone: 514-398-4109
Email: nancy.nelson@mcgill.ca

3.10.35.2 About Science for Arts Students

Students in the Faculty of Arts who have an interest in science can choose a minor program consisting of one 3-credit required course, BIOL 210, plus 15 complementary credits in the area of Science. Alternatively, they can take Science electives in lieu of a minor program, as long as they have the necessary prerequisites.

This minor concentration is administered by the Department of Biology. For more information, consult [section 3.10.35.3: Bachelor of Arts \(B.A.\) - Minor Concentration Science for Arts Students \(18 credits\)](#).

3.10.35.3 Bachelor of Arts (B.A.) - Minor Concentration Science for Arts Students (18 credits)

Freshman students interested in this Minor Concentration should contact the Program Adviser to ensure that they are taking appropriate prerequisite courses. Students should declare their intention to obtain this Minor Concentration during their U1 year and consult the Program Adviser regarding approval of courses to meet the requirements.

Students select one of the following disciplinary areas as their area of specialization for the program:

Atmospheric and Oceanic Sciences; Biochemistry; Biology - Cell and Molecular Stream, Organismal Stream; Chemistry; Earth and Planetary Sciences; Geography; Mathematics and Statistics; Microbiology and Immunology; Pathology; Physics; Physiology; Psychology.

This Minor Concentration is coordinated by the Department of Biology. For more information contact the Undergraduate Program Adviser in the Biology Department, N7/9B, Stewart Biology Building, 514-398-4109.

Required Course (3 credits)

BIOL 210	(3)	Perspectives of Science
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Complementary Courses (15 credits)

15 credits taken in one of the disciplinary areas given below. Where suggested courses have prerequisites at the 200 or 300 level associated with them, credit for the associated prerequisites may also be counted as part of the 15 credits.

Prerequisites at the 100 level cannot be counted toward the Minor concentration.

With the prior written approval of the Program Adviser, an appropriate alternative set of courses may be substituted.

Disciplinary Areas**Atmospheric and Oceanic Sciences**

Prerequisites which cannot be counted toward the Minor concentration: MATH 140 and MATH 141 or equivalents; PHYS 101 or PHYS 131 and PHYS 102 or PHYS 142 or equivalents recommended.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219	(3)	Introduction to Atmospheric Chemistry

ATOC 309	(3)	Weather Radars and Satellites
ATOC 315	(3)	Thermodynamics and Convection
ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
MATH 222	(3)	Calculus 3

Biochemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and CHEM 120, or their equivalents.

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Students who have completed CHEM 212 and CHEM 222 or their equivalents may take one or both of the following:

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules

Biology

Students interested in Biology can choose between two streams. Cell and molecular biology leads to upper-level courses in developmental biology, human genetics, molecular biology, or allied fields. Organismal biology leads to upper-level courses in biodiversity, ecology, neurobiology, behaviour, or conservation biology. See the Undergraduate Program Adviser in the Biology Department, N7/9B, Stewart Biology Building, to arrange a counselling session on the choice of courses above the 200 level.

Prerequisites which cannot be counted toward the Minor concentration: BIOL 111 and BIOL 112, plus CHEM 110 and CHEM 120 or their equivalents; in addition, for the Organismal Stream, PHYS 101 or PHYS 131; and MATH 140 and PHYS 102 or PHYS 142 if taking BIOL 306.

Biology - Cell and Molecular Stream

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Plus a selected subset of these or related upper-level courses:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 370	(3)	Human Genetics Applied

Biology - Organismal Stream

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 215	(3)	Introduction to Ecology and Evolution

CHEM 212 (4) Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or ANAT 212 or BIOC 212.

Plus one or more of these or related upper-level courses:

BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 465	(3)	Conservation Biology

Chemistry

Prerequisites which cannot be counted toward the Minor concentration: BIOL 112, and CHEM 110 and CHEM 120, or their equivalents; MATH 140, and PHYS 101 or PHYS 131, and PHYS 102 or PHYS 142, or their equivalents if taking CHEM 334.

The Department also strongly encourages students to take one or more courses involving a laboratory because the science of chemistry is rooted in laboratory experience.

Students select 15 credits from the following courses and their associated prerequisites:

Note: CHEM 212 or its equivalent is prerequisite to all 200-level or higher courses.

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 381	(3)	Inorganic Chemistry 2

One of:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

Earth and Planetary Sciences

A combination of EPSC 201 or EPSC 233, together with EPSC 210 and EPSC 212 provides a grounding in Earth and Planetary Sciences and preparation for more specialized courses.

Students should meet with an EPSC departmental adviser prior to selecting their courses, as some 200-level courses have specific prerequisites.

Prerequisites which cannot be counted toward the Minor concentration: CHEM 110 and CHEM 120, and MATH 140 or equivalents.

Students select 15 credits from the following courses and their associated prerequisites:

EPSC 201*	(3)	Understanding Planet Earth
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 334	(3)	Invertebrate Paleontology
EPSC 355	(3)	Sedimentary Geology
EPSC 549	(3)	Hydrogeology

* Note: Students select either EPSC 201 or EPSC 233.

Other EPSC credits at the 300 level or higher may be used with the approval of an Earth and Planetary Science advisor, by a student who meets the pre-requisites.

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 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

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.

Honours courses may be substituted for their Major equivalents only with the permission of the Department.

Students select 15 credits from the following courses and their associated prerequisites:

PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 320	(3)	Introductory Astrophysics

Physiology

Prerequisites which cannot be counted towards the Minor concentration: BIOL 111 and BIOL 112, CHEM 110 and CHEM 120, MATH 140, PHYS 101 or PHYS 131, and PHYS 102 or PHYS 142, or their equivalents.

Students should select:

BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1

* Note: Students select BIOL 201 or BIOC 212.

Both:

PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

And, if credits permit, one or more of these intermediate-level Physiology courses:

PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

Psychology

(Students in any Minor or Major concentration or Honours program in Psychology cannot choose this disciplinary area.)

Prerequisites which cannot be counted toward the Minor concentration: PSYC 100 (or equivalent).

Students in the Minor concentration take 15 credits of Psychology selected as follows:

PSYC 204	(3)	Introduction to Psychological Statistics
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Plus 6 credits from the following core courses:

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

Plus 6 credits Psychology courses at the 300 level or higher (excluding PSYC 305).

3.10.36 Social Studies of Medicine (SSMD)

3.10.36.1 Location

Department of Social Studies of Medicine
 3647 Peel Street
 Montreal QC H3A 1X1
 Telephone: 514-398-6033
 Email: ssom@mcgill.ca
 Website: mcgill.ca/ssom

3.10.36.2 About Social Studies of Medicine

The Minor Concentration in Social Studies of Medicine is an interdisciplinary concentration of courses designed to address the needs of:

1. undergraduates preparing for one of the health professions, and
2. social sciences and humanities undergraduates who want to gain a broader interdisciplinary understanding of medicine and health issues.

The Minor Concentration in Social Studies of Medicine presents medicine 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 Concentration 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 toward the student's Major Concentration.

3.10.36.3 Social Studies of Medicine Faculty

Chair

Thomas Schlich

Emeritus Professors

Margaret Lock; Allan Young

Professors

Annmarie Adams; Alberto Cambrosio; Jonathan Kimmelman; Thomas Schlich; Andrea Tone; George Weisz

Associate Professors

Jennifer Fishman; Nicholas King; Todd Meyers

Assistant Professors

Phoebe Friesen; Sahar Sadjadi

3.10.36.4 Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 335	(3)	Science and Medicine in Canada
HIST 356	(3)	Medicine in the Medieval West
HIST 381	(3)	Colonial Africa
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 430	(3)	Topics in Modern Medicine
HIST 449	(3)	Medicine in the Ancient World
HIST 452	(3)	Topics in Pre-Modern Medicine
HIST 457	(3)	Topics in Medical History
HIST 558	(3)	Modern Medicine: Seminar
HIST 559	(3)	Modern Medicine: Research
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

Anthropology of Medicine

ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ANTH 325	(3)	Anthropology of the Self
ANTH 407	(3)	Anthropology of the Body
ANTH 408	(3)	Sensory Ethnography
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 438	(3)	Topics in Medical Anthropology

ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6

Sociology of Medicine

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 588	(3)	Biosociology/Biodemography

3.10.37 Social Work (SWRK)

3.10.37.1 Location

School of Social Work
 550 Sherbrooke Ouest, Suite 100
 Montreal QC H3A 1B9
 Telephone: 514-398-7070
 Fax: 514-398-4760
 Email: undergraduate.socialwork@mcgill.ca
 Website: mcgill.ca/socialwork

3.10.37.2 About Social Work

The School of Social Work offers an undergraduate program leading to a Bachelor of Social Work (B.S.W.) degree. The B.S.W. program:

1. prepares students for generalist social work practice in a range of health and social service positions (the B.S.W. represents the point of admission into the *Ordre des travailleurs sociaux et des thérapeutes conjugaux et familiaux du Québec* (OTSTCFQ) and the Canadian Association of Social Workers);
2. prepares students for entry into specialized professional studies at the graduate level.

A 90-credit program is offered to students entering from CEGEP or equivalent, students who transfer from within McGill or other universities, and mature students. For more information, refer to the School's [website](#).

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.

The School of Social Work aims to ensure that social workers are as diverse as the communities with which we work. First Nations, Inuit, and Métis, people with disabilities, racialized people, visible minorities, and ethnic minorities, gender non-conforming, and LGBTQ+ people and women are strongly encouraged to apply. We invite applicants to share self-identifying information to be considered as one factor within the larger holistic review of the many excellent applicants to our BSW program.

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 BSW program supports diversity and encourages applications from a wide variety of people, including members of minority groups and individuals with low income. Applications from CEGEP, French and International Baccalaureate, transfer, and mature students are welcome. Admission to the BSW program is limited and competitive. All candidates are expected to have better than average grades, significant social-work-related experience, paid or volunteer, and also to demonstrate personal suitability for the social work profession. Classes are offered in English, but French proficiency (comprehension, spoken, and written) is needed for local field placements and for securing admission to the OTSTCFQ.

3.10.37.4 Social Work Faculty

Director

Nico Trocmé

Professors

Cindy Blackstock; Delphine Collin-Vézina; Myriam Denov; Michael MacKenzie; James Torczyner; Nico Trocmé.

Associate Professors

Sharon Bond; Shari Brotman; Jill Hanley; Nicole Ives; Julia Krane; Lucyna Lach; Heather MacIntosh; Marjorie Rabiau; Tamara Sussman.

Assistant Professors

Alicia Boatswain-Kyte; Régine Debrose; Wanda Gabriel; Charles Gyan; Zack Marshall; Katherine Maurer; Pam Orzeck.

Coordinator of Field Education

Francine Granner; Nicole Mitchell.

3.10.37.5 Bachelor of Social Work (B.S.W.) - Social Work (Three-Year Program) (90 credits)

Revision, June 2022. Start of revision.

The School of Social Work offers an undergraduate program leading to a Bachelor of Social Work (BSW) degree. The BSW focuses on generalist social work practice in a range of health and social service settings locally, nationally and internationally. Drawing on principles of diversity and equity consistent with anti-oppressive frameworks, the BSW examines theoretical foundations and practice skills to assess and respond to social problems affecting individuals, families, groups and communities. Core objectives include: exploration of an identity consistent with the values and ethics of the profession; promoting human rights and social justice; addressing historical and contemporary systemic and structural sources of oppression and marginalization; and, engaging in critical thinking in relation to client populations and in response to inequitable policies and their implications for disadvantaged groups. The BSW includes essential training through field practice.

Field Practicum

Students in the three-year B.S.W. program complete a field placement during their second and third years, two days per week, in different settings each year. Students must have completed a minimum of 24 credits to begin the second year (U2) field placement, comprised of all U1 required SWRK courses and any combination of SWRK complementary, non-SWRK complementary and/or elective courses totaling 24 credits. Students must have completed a minimum number of 54 credits to begin the third year (U3) field placement, comprised of all U1 and U2 required SWRK courses, and any combination of SWRK complementary, non-SWRK complementary and/or elective courses totaling 54 credits.

Required Courses (63 credits)

U1

SWRK 219	(3)	Anti-Oppression Social Work Practice
SWRK 220	(3)	History and Philosophy of Social Work
SWRK 221	(3)	Public Social Services in Canada
SWRK 222	(3)	Introduction to Practicum
SWRK 224	(3)	Human Development Across the Lifespan

U2

SWRK 319	(3)	Critical Thought and Ethics in Social Work
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SWRK 320	(3)	Practice with Individuals and Families 1
SWRK 321	(3)	Introduction to Practice with Groups
SWRK 322	(3)	Field Practice 1
SWRK 323	(3)	Field Practice 2
SWRK 326	(3)	Practice with Individuals and Families 2
SWRK 327	(3)	Approaches to Community Practice
SWRK 344	(3)	Integrative Seminar 1

U3

SWRK 420	(3)	Advanced Field Practice 1
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 425	(3)	Advanced Social Work Practice in Quebec
SWRK 428	(3)	Social Policy and Administration
SWRK 445	(3)	First Peoples and Social Work

Complementary Courses (21 credits)

Complementary courses comprise 21 credits of the program. These are selected with the following specifications.

9 credits of Social Work (SWRK) courses.

12 credits of non-social work complementary 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 (SOCl) 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 discipline.

Please note from “literature and civilization” programs and departments, students are permitted to select any course except any language courses to fulfill the 12 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.

Revision, June 2022. End of revision.

3.10.38 Sociology (SOCl)

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
 Website: 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 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 mcgill.ca/sociology/undergrad.

3.10.38.4 Sociology Faculty

Chair

Shelley Clark

Undergraduate Program Director

Aniruddha (Bobby) Das

Graduate Program Director

Eran Shor

Professors

Shelley Clark; Matthew Lange; Amélie Quesnel-Vallée; Eran Shor; Michael Smith; Axel van den Berg; Morton Weinfeld.

Associate Professors

Sarah Brauner-Otto; Jason Carmichael; Aniruddha (Bobby) Das; Thomas Soehl; Zoua Vang; Elaine Weiner.

Assistant Professors

Alexis Dennis; Jan Doering; Barry Eidlin; Jennifer Elrick; Peter McMahan; Luca Maria Pesando; Poulami Roychowdhury.

Associate Members

Alberto Cambrosio; Jennifer Fishman; Matissa Hollister; Anthony Masi.

Adjunct Professor

Lara Gautier

Emeritus Professors

John A. Hall; Maurice Pinard.

3.10.38.5 Bachelor of Arts (B.A.) - Minor Concentration Sociology (18 credits)

The purpose of the Minor Concentration Sociology is to give the student a basic understanding of the field of sociology. This Minor concentration may be expanded to the Major Concentration Sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

Complementary Courses (12 credits)

3 credits from the following:

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

9 credits of complementary courses chosen from the list of courses offered by the Sociology Department. At least 3 credits must be taken at the 300-level or higher.

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 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 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
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 and Citizenship
SOCI 424	(3)	Networks and Social Structures
SOCI 430	(3)	Sociology of Citizenship
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 430	(3)	Sociology of Citizenship

SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

3.10.38.6 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

SOCI 341	(3)	Current Problems in Sociology 02
SOCI 342	(3)	Independent Study 1
SOCI 343	(3)	Independent Study 2
SOCI 441	(3)	Current Problems in Sociology 03
SOCI 442	(3)	Independent Reading and Research 01
SOCI 443	(3)	Independent Reading and Research 02

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 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 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
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 and Citizenship
SOCI 424	(3)	Networks and Social Structures
SOCI 430	(3)	Sociology of Citizenship
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 595	(3)	Immigration Control and The State

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 430	(3)	Sociology of Citizenship
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

SOCI 595 (3) Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235 (3) Technology and Society
 SOCI 304 (3) Sociology of the Welfare State
 SOCI 312 (3) Sociology of Work and Industry
 SOCI 325 (3) Sociology of Science
 SOCI 420 (3) Organizations
 SOCI 470 (3) Topics in Economic Sociology

3.10.38.7 Bachelor of Arts (B.A.) - Honours Sociology (51 credits)

The B.A.; Honours in Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of an Honours program is an asset when applying to graduate or professional schools.

Students may register for the Honours program at the beginning of their second year (U2).

To remain in the Honours program and receive an Honours degree, students must maintain a GPA of 3.50 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00.

Required Courses (21 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210 (3) Sociological Perspectives
 SOCI 211 (3) Sociological Inquiry
 SOCI 330 (3) Sociological Theory
 SOCI 350 (3) Statistics in Social Research
 SOCI 461 (3) Quantitative Data Analysis
 SOCI 477 (3) Qualitative Methods in Sociology
 SOCI 480 (3) Honours Project

Complementary Courses (30 credits)

30 credits of complementary sociology (SOCI) courses selected with the following specifications:

9 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Honours students in their final year.

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 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 388	(3)	Crime
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 and 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 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 588	(3)	Biosociology/Biodemography
SOCI 595	(3)	Immigration Control and The State

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology
SOCI 595	(3)	Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 445	(3)	Readings: Sociological Theory
SOCI 470	(3)	Topics in Economic Sociology

3.10.38.8 Bachelor of Arts (B.A.) - Joint Honours Component Sociology (36 credits)

The Joint Honours Component Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of a Joint Honours program is an asset when applying to graduate or profession schools.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students may register for Joint Honours at the beginning of their second year (U2).

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 480	(3)	Honours Project

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 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 388	(3)	Crime

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 and 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 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 595	(3)	Immigration Control and The State

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 415	(3)	Education and Inequality
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology
SOCI 595	(3)	Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4 Bachelor of Arts and Science

4.1 About the Faculties

The B.A. & Sc. is an interdisciplinary degree intended for students who 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](#).

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.

4.3 About the Bachelor of Arts and Science (Undergraduate)

In September 2005, the Faculties of Arts and of Science introduced the Bachelor of Arts and Science degree. The Bachelor of Arts and Science (B.A. & Sc.) is a special and unique degree that is jointly offered by McGill's two largest faculties: the Faculty of Arts and the Faculty of Science.

The programs in the B.A. & Sc. are rooted in both Arts and Science and carry roughly equal course weight in these faculties. The B.A. & Sc. is an interdisciplinary degree intended for students who want to pursue simultaneously a program offered by the Faculty of Arts and one offered by the Faculty of Science or a program offered jointly by both faculties. In the case of some disciplines, such as Sustainability or Cognitive Science, this duality is inherent to the discipline. In other cases, the student may choose to join equal measures of an Arts discipline and Science discipline into a coherent interdisciplinary package. Examples might be Anthropology and Geological Sciences, or Philosophy and Mathematics. The central objective of the B.A. & Sc. is to provide students with a broad education that includes study of disciplines in both faculties. This new degree gives students a unique opportunity to achieve a diverse knowledge base, to gain competence in different methods of scholarship, to hone intellectual flexibility, and to integrate material across disciplines.

This is the right degree for students who are firmly committed to such a disciplinary duality. By the same token, it is the wrong choice for students who are undecided between Arts or Science disciplines. Because the B.A. & Sc. is intended for students with well-defined interdisciplinary interests, it 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.

Select a category from the menu to find out more, or visit mcgill.ca/basc.

4.3.1 Location

853 Sherbrooke Street West
Montreal QC H3A 0G5
Canada
Telephone: 514-398-7179

Science Office for Undergraduate Student Advising (SOUSA)

Telephone: 514-398-5442
Website: mcgill.ca/science/undergraduate

The Science Office for Undergraduate Student Advising (SOUSA) is responsible for advising B.A. & Sc. students and is located in Dawson Hall, room 405.

4.3.2 Administrative Officers

For a listing of administrative officers in the **Faculty of Arts**, refer to [Faculty of Arts > Undergraduate > About Arts \(Undergraduate\) > section 3.4.2: Administrative Officers](#) and for those in the **Faculty of Science**, refer to [Faculty of Science > Undergraduate > About the Faculty of Science \(Undergraduate\) > section 11.4.3: Administrative Officers](#). Note that the Director of Advising Services, Science, is responsible for students pursuing a B.A. & Sc.

The [B.A. & Sc. Program Administration Committee](#) (PAC), which oversees the curriculum and regulations for the degree, consists of the following members:

B.A. & Sc. Program Administration Committee (PAC)

Axel Hundemer	Associate Dean (Academic), Faculty of Science
Peter Barry	Chief Advisor; Science Office for Undergraduate Student Advising
TBA	Director B.A. & Sc. Program
Tania Raggio	Student Advisor/Administrator
Michael Fronda	Chair; Associate Dean (Academic Administration and Oversight), Faculty of Arts
Michel Lapointe	Geography
Aaron Erlich	Political Science
Alanna Watt	Biology
Nicholas Dew	History & Classical Studies

B.A. & Sc. Program Administration Committee (PAC)

Stephanie Posthumus Languages, Literatures, & Cultures

Student Representatives

Jessie Ye Honours Environment; Minor Conc. Political Science

Kevin Franceschini Interfaculty Sustainability, Science & Society; Minor Canadian Studies

4.3.3 Science Office for Undergraduate Student Advising (SOUSA)

The Science Office for Undergraduate Student Advising (SOUSA) provides ongoing advice and guidance on academic issues related to programs, degree requirements, registration, course change, withdrawal, deferred exams, supplemental exams, Academic Standing, inter- and intra-faculty transfer, year or term away, transfer credits, second programs, second degrees, and graduation.

Every student in the B.A. & Sc. degree is assigned to Tania Raggo, B.A. & Sc. Student Adviser. You can contact her directly by email tania.raggo@mcgill.ca.

The B.A. & Sc. adviser provides assistance with degree planning and is a valuable referral source if you are not sure where to address your question. She also offers help managing academic situations during periods of personal, financial, or medical problems, by working with you to identify various possibilities and strategies for making informed decisions.

Special requests can be made, in writing, to the Associate Dean, Student Affairs, Science, who is responsible for students pursuing a B.A. & Sc.

The Committee on Student Standing (CSS) of the Faculty of Science will consider appeals of the Associate Dean, Student Affairs' decisions. For information about CSS, see the Associate Dean, Student Affairs' assistant.

For more information, refer to the SOUSA website: mcgill.ca/science/undergraduate.

4.4 Degree Admission Requirements

For information about admission requirements to the B.A. & Sc., refer to the *Undergraduate Admissions Guide*, found at mcgill.ca/applying.

For information about interfaculty or inter-degree transfers, refer to [University Regulations and Resources > Undergraduate > Registration > section 1.3.6: Interfaculty Transfer](#), as well as to the relevant information posted on the Science Office for Undergraduate Student Advising (SOUSA) website at mcgill.ca/science/undergraduate/handbook#degree-transfers.

4.5 Degree Requirements

Each student pursuing a B.A. & Sc. must be aware of the regulations as stated in this section of this publication, on the McGill website, and on the Science Office for Undergraduate Student Advising (SOUSA) website.

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 SOUSA Office 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.A. & Sc., you must fulfil all Faculty degree and program requirements as indicated in the following sections:

- [section 4.5.1: Minimum Credit Requirement](#)
- [section 4.5.2: Residency Requirement](#)
- [University Regulations and Resources > Undergraduate > Student Records > section 1.5.3: Grading and Grade Point Averages \(GPA\)](#)
- [section 4.5.3: Time and Credit Limit for Completion of the Degree](#)
- [section 4.5.5: Course Requirements](#)

4.5.1 Minimum Credit Requirement

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

Students are normally admitted to a four-year degree 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.

If you are readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of a program. In this case, a new GPA will be calculated. The Associate Dean, Student Affairs, Science, in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are 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 interfaculty or honours programs who pursue an approved Study Away or Exchange program may, with prior approval from both their department and the Associate Dean, Student Affairs, Faculty of Science, be exempted from the two-thirds rule. In addition, some departments may require that their students complete specific components of their program at McGill.

4.5.3 Time and Credit Limit for Completion of the Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration. If you are a student in the Freshman program, you become subject to these regulations one year after your initial registration. If you need or want to exceed this time limit, you must receive permission from the Associate Dean, Student Affairs, Science, to continue your studies.

If you are registered in the B.A. & Sc., you are expected to complete the requirements of your program and your degree within 120 credits. You will receive credit for all courses (subject to degree regulations) taken up to and including the semester in which you obtain 120 credits. If you want to remain at McGill beyond that semester, you must also seek permission of the Associate Dean, Student Affairs, 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 program requirements.

4.5.4 Departmental Programs

If you are pursuing a B.A. & Sc., other than those registered in the Freshman program, you are required to have an approved program (multi-track, joint honours, interfaculty, honours), and to select your courses in each term with a view to timely completion of your degree and program requirements. You must complete one of the program streams described below.

4.5.4.1 Multi-Track

To recognize the diversity of student backgrounds and interests, and the multiple routes to understanding provided by a modern university, the Faculties of Arts and of Science offer a 90-credit multi-track program that includes a major concentration in one faculty complemented by a major concentration in the other faculty (see below):

Option

- Arts Major Concentration (36 credits) + Science Major Concentration (36–38 credits) (see [section 4.9: Overview of Programs Offered](#) for a list of programs open to students in the B.A. & Sc.)
- The integrative course BASC 201 (3 credits)

Regulations

- Programs offered by Computer Science, Mathematics and Statistics, and Psychology are considered Science programs for the purpose of the B.A. & Sc. Exceptionally, you may take a Geography program in both Arts and Science.
- Students will include within the 36 credits of their major concentrations any university-level (200 or above) prerequisites to required courses within their programs.
- No course may fulfil the requirements for more than one program.

Definitions

- *Units*: academic departments or administrative equivalents
- *Programs*: lists of required and complementary courses (including university-level prerequisites for required courses) prepared and maintained by units
- *Major Concentration*: a program of 36–38 credits taken from a unit's course offerings

4.5.4.2 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 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 \(including B.A. & Sc.\)](#).

Option

- Arts Joint Honours (36 credits) + Science Joint Honours (36 credits). (see [section 4.9: Overview of Programs Offered](#) for a list of programs open to students in the B. A. & Sc.)
- The integrative course BASC 201 (3 credits)
- 13-15 credits of electives

Regulations

- Programs offered by Mathematics and Statistics, and Psychology are considered Science programs for the purpose of the B.A. & Sc.
- Students will include within the 36 credits of their major concentrations any university-level (200 or above) prerequisites to required courses within their programs.
- No course may fulfil the requirements for more than one program.

4.5.4.3 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 approved programs. Students in the B.A. & Sc. who complete an approved interfaculty 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 interfaculty program and your minor concentration or minor program.

Option

- Interfaculty Program (54 credits) + Minor or Minor Concentration (18 to 24 credits) (see [section 4.9: Overview of Programs Offered](#) for a list of programs open to students in the B.A. & Sc.)
- The integrative course BASC 201 (3 credits)
- 12-18 credits of electives

Regulations

- 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 interfaculty program and your minor concentration or minor program.
- No course may fulfil the requirements for more than one program.

4.5.4.4 Honours Program

Honours programs demand a high degree of specialization, and require you to satisfy specific departmental and Faculty Honours requirements while maintaining good Academic Standing. They are designed to prepare you for graduate study. Students in the B.A. & Sc. who complete an approved honours 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.

Option

- Honours Program (60 credits) + Minor or Minor Concentration (18 to 24 credits) (see [section 4.9: Overview of Programs Offered](#) for a list of programs open to students in the B.A. & Sc.)
- The integrative course BASC 201 (3 credits)
- Minimum cGPA at graduation of 3.00 (minimum cGPA at graduation of 3.50 for First-Class Honours)
- Some departments have additional requirements which must be met before you are recommended for Honours or First-Class Honours
- 6-12 credits of electives

Regulations

- 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 you interfaculty program and your minor concentration or minor program.
- No course may fulfil the requirements for more than one 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 \(including B.A. & Sc.\)](#).

4.5.5 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, you must either pass the supplemental examination in the course or do additional work for a supplemental grade, if these options are available, or repeat the course. Course substitution will be allowed only in special cases; students should consult their [academic advisor](#).

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 a required course is failed a second time, you must appeal to the Director of Advising Services, Science, for permission to take the course a third time. If permission is denied by the Director of Advising Services and/or by the Committee on Student Standing of the Faculty of Science, on appeal, you must withdraw from the program. If the failed course is a complementary course required by the program, you may choose to replace it with another appropriate 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 addition, you must complete the integrative course (BASC 201, 3 credits).

For a list of all programs available to B.A. & Sc. students, and full details of the course requirements for all programs as well as the locations of departmental advisory offices, program directors, and telephone numbers for further information, see [section 4.9: Overview of Programs Offered](#).

4.5.5.1 Course Overlap

You will not receive additional credit towards your degree for any course that overlaps in content with a course for which you have already received credit at McGill, CEGEP, at another university, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate. It is your responsibility to consult with a Faculty Adviser in [Arts OASIS](#), the [Science Office for Undergraduate Advising](#) (SOUSA), or the department offering the course as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course description in this publication. Please refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: mcgill.ca/transfercredit.

Sometimes the same course is offered by two different departments. Such courses are called "double-prefix" courses. When such courses are offered simultaneously, you should take the course offered by the department in which you are obtaining your degree. For example, in the case of double-prefix courses CHEM XYZ and PHYS XYZ, Chemistry students take CHEM XYZ and the Physics students take PHYS XYZ. If a double-prefix course is offered by different departments in alternate years, you may take whichever course best fits your schedule.



Note for Arts Students: Credit for computer courses offered by the School of Computer Science is governed by rules specified in each individual course description.



Note for Science and Bachelor of Arts and Science students:

Credit for statistics courses offered by faculties other than Arts and Science requires the permission of the Associate Dean (Student Affairs), Science, except for students in the B.Sc. Major in Environment, who may take required statistics courses in the Faculty of Agricultural and Environmental Sciences necessary to satisfy their program requirements.

Credit for computer courses offered by faculties other than Science requires the permission of the Associate Dean, Student Affairs, Science, and will be granted only under exceptional circumstances.

For Arts, Science, and Bachelor of Arts and Science students

Credit for statistics courses will be given with the following stipulations:

- Credit will be given for **only one** of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, POTH 204, PSYC 204, SOCI 350.
- Credit will be given for **only one** of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, PSYC 305, SOCI 461, with the exception that you may receive credit for both PSYC 305 and ECON 227D1/D2 or ECON 257D1/D2.
- Students who have already received credit for MATH 324 or MATH 357 will **not** receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program/department adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

4.5.5.2 Courses Outside the Faculties of Arts and of Science

The following regulations apply to students in the B.A. & Sc. who want to take courses outside the Faculties of Arts and of Science:

- Regardless of your minimum credit requirement toward your B.A. & Sc., you are allowed a maximum of 12 credits in ELECTIVE and/or COMPLEMENTARY courses taken in faculties other than the Faculties of Arts and of Science.
- Students in certain designated programs that include a number of REQUIRED and COMPLEMENTARY courses in other faculties are permitted a maximum of 30 credits outside the Faculties of Arts and of Science. These programs are the Interfaculty and Honours programs in Environment, the

Minor concentration in Environment, the Interfaculty and Honours programs in Sustainability, Science and Society, and the Major concentration in Geography (Urban Studies).

- Any courses taught at McGill University may be used toward the maximum allowed, except for courses taught by the School of Continuing Studies, for which you receive credits only in Continuing Studies. Courses taught by the McGill Writing Centre are excluded from this rule and can count for credit in your degree (see the SOUSA website for a list of approved courses: mcgill.ca/science/undergraduate/handbook#basc-continuing).
- For the purpose of this policy, courses taught in other faculties and specifically listed in [Faculty of Arts > Undergraduate](#) or [Faculty of Science > Undergraduate](#) are considered as courses taught in the Faculties of Arts and of Science.
- **The maximum number of credits allowed will be strictly enforced.**

4.5.5.3 Distance Education Courses

- A maximum of 6 credits of courses taught through distance education may be used as electives toward the B.A. & Sc. degree at McGill.
- Courses taught through distance education from institutions other than McGill will be approved as transfer credits under the following conditions:
 - the course is given by a government-accredited, degree-granting institution acceptable to McGill;
 - the course counts for credit toward degrees granted at the institution giving the course;
 - prior approval for the course is obtained from the Science Office for Undergraduate Student Advising (SOUSA).
- The combined total of regular course credits and distance education course credits may not exceed the permitted maximum number of credits per term according to the regulations for the B.A. & Sc. (see [University Regulations and Resources > Undergraduate > Registration > section 1.3.2.4: Course Load](#)).
- Courses taught through distance education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it. In such cases, prior approval must be obtained from your program adviser and the Associate Dean, Student Affairs, Science.

4.5.5.4 Courses in English as a Second Language (ESL)

ESL courses are only open to students whose primary language is not English and who have studied for fewer than five years in English-language secondary institutions. As a student in the B.A. & Sc., you may take a maximum of 12 credits, including academic writing courses for non-anglophones, from the list of ESL courses published at mcgill.ca/science/undergraduate/handbook#basc-continuing.

4.5.5.5 Registration for First-Year Seminars

Registration for First-Year Seminars is limited to students in their first year of study at McGill, i.e., newly admitted students in U0 or U1. These courses are designed to provide a closer interaction with professors and better working relations with peers than is available in large introductory courses. These seminars 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 during your first year at McGill. If you register for more than one, you will be obliged to withdraw from all but one of them.

A list of First-Year Seminars is available at [Faculty of Arts > Undergraduate > Faculty of Arts Degree Requirements > Course Requirements > section 3.6.5.9: First-Year Seminar Courses](#) and [Faculty of Science > Undergraduate > Faculty Degree Requirements > Course Requirements > section 11.6.5.5: First-Year Seminars: Registration](#).

4.6 Advising

If you need 96 or fewer credits to complete your degree requirements, you must consult an academic adviser in your proposed department of study to obtain advice and approval of your course selection (please see [section 4.5.4: Departmental Programs](#)). To facilitate program planning, you must present your transcript(s) and letter of admission. If you have not fulfilled the B.A. & Sc. Freshman program requirements, you should also seek advice from an adviser in the Science Office for Undergraduate Student Advising (SOUSA). For a detailed description of advising and registration procedures, refer to [University Regulations and Resources > Undergraduate > section 1.11: Undergraduate Advising](#), [section 1.3: Registration](#), and to the [website for newly admitted undergraduate students](#), as well as the [SOUSA website](#), and finally your department's website.

If you need 97–120 credits to complete your degree requirements, you will normally be registered in a Freshman program until you complete your first year. You must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures, you should refer to mcgill.ca/accepted, and to the information on the [SOUSA website](#).

Advising for all returning students takes place in March for the upcoming academic year. For more information, refer to mcgill.ca/science/undergraduate/advice.

4.6.1 Choosing a B.A. & Sc. Program

The B.A. & Sc. is intended for students with well-defined interdisciplinary interests. There are several options for the main program, all of which specify 75–80 of the 90 credits, leaving only 10–15 credits for electives. Since there are relatively few electives, students entering a program in the B.A. & Sc. degree should have a clear idea of their objectives, goals, and intended areas of study, so that they can plan their curriculum carefully.

It should be noted that there also exists considerable flexibility within the B.A. (Faculty of Arts) and B.Sc. (Faculty of Science) programs. 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. For example, B.Sc. students may complete minor concentrations in Arts and vice versa.

There are **four ways** to complete programs in the B.A. & Sc. degree:

Multi-Track System

The multi-track system is intended for students who want a program that includes significant components from both Arts and from Science.

You complete 36 credits of Arts courses, 36–38 credits of Science courses, and a required integrative course (BASC 201, 3 credits). You can combine an Arts major concentration with a Science major concentration (36–38 credits each). Additional guidelines for the multi-track system can be found in [section 4.5.4: Departmental Programs](#). You will find the program descriptions for the major concentrations in Science, which are unique to the B.A. & Sc. within this section of this publication.

* Effective September 2013 the multi-track option to complete two minors or two minor concentrations is no longer available.

Descriptions of programs offered in Arts are located in [Faculty of Arts > Undergraduate](#).

Interfaculty Programs

Interfaculty programs are interdisciplinary in nature. There are currently three such programs: Environment; Cognitive Science; and Sustainability, Science and Society. In these programs, you complete 54 credits of the Interfaculty program, a minor of 18 credits, 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 interfaculty program and your minor concentration or program.

Environment

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 in 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 address the myriad of environmental problems that exist today. Further information about Environment programs and academic advising can be found at mcgill.ca/environment.

Cognitive Science

The Interfaculty program in Cognitive Science offered within the B.A. & Sc. degree is the only major program currently offered at McGill for students interested in this discipline. The requirements encourage you to choose courses in two of the five subject areas in Cognitive Science (Computer Science, Linguistics, Neuroscience, Philosophy, Psychology) as the focus of your program. In addition, if you are interested in research in this field, you may include up to 12 credits of research courses within your program. Further information can be found at mcgill.ca/cogsci.

Sustainability, Science and Society

Food security, access to clean water, poverty, climate change, biodiversity loss, sustainable energy production—a long list of challenges face human societies in the 21st century. In the face of these multiple challenges, the grand imperative of the 21st century is Sustainable Well-being—in other words, how can we provide for a world population that could stabilize at 9–10 billion, while also maintaining the Earth’s life support systems. Find out more about this interdisciplinary program at mcgill.ca/sss/.

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 examine the difference between the preparation provided by the 36-credit major concentrations in the B.A. & Sc. program versus the significantly more specialized major and honours programs offered in the B.Sc. programs.

4.7 Freshman Interest Groups

Freshman Interest Groups (FIGs) are groups of approximately 15 U0 students in the B.Sc. or B.A. & Sc., led by a professor in the Faculty of Science or Faculty of Medicine and Health Sciences, and an upper-year undergraduate student. They meet once every two weeks in the Fall semester to discuss a wide range of topics, such as science in the news, program choices, undergraduate research opportunities, or just aspects of life in Montreal. The purpose of a FIG is to ease the transition to McGill and Montreal and to provide you an opportunity to interact with a professor and with other U0 students in a small group. FIGs carry no credit and there is no charge. For more information and to see how to register, refer to mcgill.ca/science/undergraduate/new-students/firstyear/bscfreshman#figs.

4.8 Examinations

You should see [University Regulations and Resources](#) > [Undergraduate](#) > [section 1.6: Examinations: General Information](#) for information about final examinations and deferred examinations.

The exam schedules are posted on the McGill website, mcgill.ca/exams, normally one month after the start of classes for the tentative Examination 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.

4.9 Overview of Programs Offered

- [section 4.9.1: Minor Concentrations or Minors](#)
- [section 4.9.2: Major Concentrations](#)
- [section 4.9.3: Honours Programs](#)
- [section 4.9.4: Joint Honours Programs](#)
- [section 4.9.5: Interfaculty Programs](#)

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 Communication Studies \(18 credits\)](#)

Faculty of Arts Minor Concentrations or Minors

East Asian Language and Literature – *section 4.10.12.2: Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)*

East Asian Cultural Studies – *section 4.10.12.1: Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)*

East Asian Studies, Supplementary – *section 4.10.12.3: Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)*

Economics – *section 4.10.13.1: Bachelor of Arts (B.A.) - Minor Concentration Economics (18 credits)*

English – Cultural Studies – *section 4.10.14.1: Bachelor of Arts (B.A.) - Minor Concentration English - Cultural Studies (18 credits)*

English – Drama and Theatre – *section 4.10.14.2: Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)*

English – Literature – *section 4.10.14.3: Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)*

European Literature and Culture – *section 4.10.25.1: Bachelor of Arts (B.A.) - Minor Concentration European Literature and Culture (18 credits)*

Gender, Sexuality, Feminist, & Social Justice Studies – *section 4.10.17.1: Bachelor of Arts (B.A.) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies (18 credits)*

Geography – *section 4.10.18.1: Bachelor of Arts (B.A.) - Minor Concentration Geography (18 credits)*

Geography (Urban Studies) – *section 4.10.18.2: Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Studies) (18 credits)*

German Language – *section 4.10.25.2: Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)*

German Studies – *section 4.10.25.7: Bachelor of Arts (B.A.) - Minor Concentration German Studies (18 credits)*

Health Geography – *section 4.10.18.4: Bachelor of Arts (B.A.) - Minor Concentration Health Geography (18 credits)*

Hispanic Studies – *section 4.10.25.3: Bachelor of Arts (B.A.) - Minor Concentration Hispanic Studies (18 credits)*

History – *section 4.10.19.2: Bachelor of Arts (B.A.) - Minor Concentration History (18 credits)*

History and Philosophy of Science – *section 4.10.21.1: Bachelor of Arts (B.A.) - Minor Concentration History and Philosophy of Science (18 credits)*

Indigenous Studies – *section 4.10.7.2: Bachelor of Arts (B.A.) - Minor Concentration Indigenous Studies (18 credits)*

International Development Studies – *section 4.10.22.3: Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)*

Italian Studies – *section 4.10.25.4: Bachelor of Arts (B.A.) - Minor Concentration Italian Studies (18 credits)*

Jewish Studies – *section 4.10.24.1: Bachelor of Arts (B.A.) - Minor Concentration Jewish Studies (18 credits)*

Langue et littérature françaises – Études et pratiques littéraires – *section 4.10.16.1: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et littérature françaises - Études et pratiques littéraires (18 crédits)*

Langue et littérature françaises – Langue française – *section 4.10.16.2: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)*

Langue et littérature françaises – Traduction – *section 4.10.16.3: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et litt. françaises - Traduction (18 crédits)*

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 crédits)*

Religious Studies – *section 4.10.29.1: Bachelor of Arts (B.A.) - Minor Concentration Religious Studies (18 credits)*

Russian – *section 4.10.25.5: Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)*

Russian Culture – *section 4.10.25.6: Bachelor of Arts (B.A.) - Minor Concentration Russian Culture (18 credits)*

Social Studies of Medicine – *section 4.10.33.1: Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)*

Sociology – *section 4.10.34.1: Bachelor of Arts (B.A.) - Minor Concentration Sociology (18 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*

Faculty of Arts Minor Concentrations or Minors

Turkish Language (18 credits), section 4.10.36.4: Bachelor of Arts (B.A.) - Minor Concentration Urdu Language (18 credits), section 4.10.36.5: Bachelor of Arts (B.A.) - Minor Concentration World Islamic & Middle East Studies (18 credits)

4.9.1.2 Faculty of Science

The Science minors or minor concentrations available to B.A. & Sc. students are listed here.

Faculty of Science Minor Concentrations or Minors

Atmospheric Science – *section 4.10.5.1: Bachelor of Science (B.Sc.) - Minor Atmospheric Science (18 credits)*

Biology – Cell/Molecular – *section 4.10.6.1: Bachelor of Arts and Science (B.A. & Sc.) - Minor Concentration Biology - Cell/Molecular (19 credits)*

Biology – Organismal – *section 4.10.6.2: Bachelor of Arts and Science (B.A. & Sc.) - Minor Concentration Biology - Organismal (19 credits)*

Chemistry – *section 4.10.8.1: Bachelor of Science (B.Sc.) - Minor Chemistry (20 credits)*

Computer Science – *section 4.10.10.1: Bachelor of Arts (B.A.) - Minor Concentration Computer Science (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)*

Geographic Information Systems and Remote Sensing – *section 4.10.18.6: Bachelor of Science (B.Sc.) - Minor GIS & Remote Sensing (18 credits)*

Geography – *section 4.10.18.5: Bachelor of Science (B.Sc.) - Minor Geography (18 credits)*

Geology – *section 4.10.11.1: Bachelor of Science (B.Sc.) - Minor Geology (18 credits) (previously named Earth and Planetary Sciences)*

Interdisciplinary Life Sciences – *section 4.10.20.1: Bachelor of Science (B.Sc.) - Minor Interdisciplinary Life Sciences (24 credits)*

Mathematics – *section 4.10.27.1: Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)*

Physics – *section 4.10.29.1: Bachelor of Science (B.Sc.) - Minor Physics (18 credits)*

Psychology – *section 4.10.31.1: Bachelor of Arts (B.A.) - Minor Concentration Psychology (18 credits)*

Statistics – *section 4.10.27.2: Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)*

4.9.2 Major Concentrations

4.9.2.1 Faculty of Arts

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 major concentration, the program must include at least 30 credits of Arts courses. Similarly, to be counted as a Science major concentration, the program must include at least 30 credits of Science courses.

For example, a student completing the 36-credit African Studies Major concentration in Arts must complete at least 30 of those credits in Arts courses and at most 6 credits in Science courses.

The Arts major concentrations available to B.A. & Sc. students are listed here.

Faculty of Arts Major Concentrations

African Studies – *section 4.10.22.2: Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)*

Anthropology – *section 4.10.3.2: Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)*

Art History – *section 4.10.4.3: Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)*

Classics – *section 4.10.19.3: Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)*

East Asian Studies – *section 4.10.12.4: Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)*

Economics – *section 4.10.13.2: Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)*

English – Cultural Studies – *section 4.10.14.4: Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)*

English – Drama and Theatre – *section 4.10.14.5: Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)*

English – Literature – *section 4.10.14.6: Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)*

Gender, Sexuality, Feminist, & Social Justice Studies – *section 4.10.17.2: Bachelor of Arts (B.A.) - Major Concentration Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)*

Geography – *section 4.10.18.8: Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)*

Faculty of Arts Major Concentrations

Geography (Urban Studies) – [section 4.10.18.9: Bachelor of Arts \(B.A.\) - Major Concentration Geography \(Urban Studies\) \(36 credits\)](#)

German Studies – [section 4.10.25.8: Bachelor of Arts \(B.A.\) - Major Concentration German Studies \(36 credits\)](#)

Hispanic Studies – [section 4.10.25.9: Bachelor of Arts \(B.A.\) - Major Concentration Hispanic Studies \(36 credits\)](#)

History – [section 4.10.19.4: Bachelor of Arts \(B.A.\) - Major Concentration History \(36 credits\)](#)

International Development Studies – [section 4.10.22.4: Bachelor of Arts \(B.A.\) - Major Concentration International Development Studies \(36 credits\)](#)

Italian Studies – [section 4.10.25.10: Bachelor of Arts \(B.A.\) - Major Concentration Italian Studies \(36 credits\)](#)

Jewish Studies – [section 4.10.24.2: Bachelor of Arts \(B.A.\) - Major Concentration Jewish Studies \(36 credits\)](#)

Langue et littérature françaises – Études et pratiques littéraires – [section 4.10.16.4: Baccalauréat ès Arts \(B.A.\) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires \(36 crédits\)](#)

Langue et littérature françaises – Traduction – [section 4.10.16.5: Baccalauréat ès Arts \(B.A.\) - Concentration majeure Langue et littérature françaises - Traduction \(36 crédits\)](#)

Latin American & Caribbean Studies – [section 3.10.26.9.5: Bachelor of Arts \(B.A.\) - Major Concentration Latin American & Caribbean Studies \(36 credits\)](#)

Linguistics – [section 4.10.26.2: Bachelor of Arts \(B.A.\) - Major Concentration Linguistics \(36 credits\)](#)

Philosophy – [section 4.10.28.2: Bachelor of Arts \(B.A.\) - Major Concentration Philosophy \(36 credits\)](#)

Political Science – [section 4.10.30.2: Bachelor of Arts \(B.A.\) - Major Concentration Political Science \(36 credits\)](#)

Religious Studies – [section 3.10.34.11: Bachelor of Arts \(B.A.\) - Major Concentration Religious Studies \(36 credits\)](#)

Russian – [section 4.10.25.11: Bachelor of Arts \(B.A.\) - Major Concentration Russian \(36 credits\)](#)

Sociology – [section 4.10.34.2: Bachelor of Arts \(B.A.\) - Major Concentration Sociology \(36 credits\)](#)

World Islamic and Middle East Studies – [section 4.10.36.6: Bachelor of Arts \(B.A.\) - Major Concentration World Islamic & Middle East Studies \(36 credits\)](#)

4.9.2.2 Faculty of Science

The Science major concentrations available to B.A. & Sc. students are listed here.

Faculty of Science Major Concentrations

Biology – [section 4.10.6.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Biology \(36 credits\)](#)

Chemistry – [section 4.10.8.2: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Chemistry \(36 credits\)](#)

Computer Science – [section 4.10.10.2: Bachelor of Arts \(B.A.\) - Major Concentration Computer Science \(36 credits\)](#)

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 4.10.29.2: Bachelor of Arts and Science \(B.A. & Sc.\) - Major Concentration Physics \(36 credits\)](#)

Psychology – [section 4.10.31.2: 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 \(37 credits\)](#)

Statistics – [section 3.10.29.7: Bachelor of Arts \(B.A.\) - Major Concentration Statistics \(36 credits\)](#)

4.9.3 Honours Programs

The Honours programs available to B.A. & Sc. students are listed here.

Honours Programs open to B.A. & Sc. students

[section 4.10.9: Cognitive Science](#) – [section 4.10.9.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Honours Cognitive Science \(60 credits\)](#)

Environment – see [Bieler School of Environment > Undergraduate > Browse Academic Programs > Honours Program in Environment > section 7.7.6.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Honours Environment \(60 credits\)](#)

[section 4.10.35: Sustainability, Science and Society](#) – [section 4.10.35.4: Bachelor of Arts and Science \(B.A. & Sc.\) - Honours in Sustainability, Science and Society \(60 credits\)](#)

Students interested in an Honours degree should also consider the [section 4.9.4: Joint Honours Programs](#).

4.9.4 Joint Honours Programs

Joint Honours programs in the B.A. & Sc. are created by combining a Joint Honours program component from an Arts discipline with one from a Science discipline. Students must register for both Joint Honours program components. Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

4.9.4.1 Faculty of Arts

The Arts Joint Honours components available to B.A. & Sc. students are listed here.

Faculty of Arts Joint Honours Programs

Anthropology – [section 4.10.3.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Anthropology \(36 credits\)](#)

Art History – [section 4.10.4.4: Bachelor of Arts \(B.A.\) - Joint Honours Component Art History \(36 credits\)](#)

Classics – [section 4.10.19.5: Bachelor of Arts \(B.A.\) - Joint Honours Component Classics \(36 credits\)](#)

East Asian Studies – [section 4.10.12.5: Bachelor of Arts \(B.A.\) - Joint Honours Component East Asian Studies \(36 credits\)](#)

Economics – [section 4.10.13.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Economics \(30 credits\)](#)

English – Cultural Studies – [section 4.10.14.7: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Cultural Studies \(36 credits\)](#)

English – Drama and Theatre – [section 4.10.14.8: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Drama and Theatre \(36 credits\)](#)

English – Literature – [section 4.10.14.9: Bachelor of Arts \(B.A.\) - Joint Honours Component English - Literature \(36 credits\)](#)

Gender, Sexuality, Feminist, & Social Justice Studies – [section 4.10.17.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Gender, Sexuality, Feminist, & Social Justice Studies \(36 credits\)](#)

Geography – [section 4.10.18.10: Bachelor of Arts \(B.A.\) - Joint Honours Component Geography \(36 credits\)](#)

German Studies – [section 4.10.25.12: Bachelor of Arts \(B.A.\) - Joint Honours Component German Studies \(36 credits\)](#)

Hispanic Studies – [section 4.10.25.13: Bachelor of Arts \(B.A.\) - Joint Honours Component Hispanic Studies \(36 credits\)](#)

History – [section 4.10.19.6: Bachelor of Arts \(B.A.\) - Joint Honours Component History \(36 credits\)](#)

International Development Studies – [section 4.10.22.5: Bachelor of Arts \(B.A.\) - Joint Honours Component International Development Studies \(36 credits\)](#)

Italian Studies – [section 4.10.25.14: Bachelor of Arts \(B.A.\) - Joint Honours Component Italian Studies \(36 credits\)](#)

Jewish Studies – [section 4.10.24.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Jewish Studies \(36 credits\)](#)

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 \(36 credits\)](#)

Philosophy – [section 4.10.28.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Philosophy \(36 credits\)](#)

Political Science – [section 4.10.30.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Political Science \(36 credits\)](#)

Religious Studies - Asian Religions – [section 4.10.32.2: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Asian Religions \(36 credits\)](#)

Religious Studies - Western Religions – [section 4.10.32.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Religious Studies - Western Religions \(36 credits\)](#)

Russian – [section 4.10.25.15: Bachelor of Arts \(B.A.\) - Joint Honours Component Russian \(36 credits\)](#)

Sociology – [section 4.10.34.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Sociology \(36 credits\)](#)

World Islamic and Middle East Studies – [section 4.10.36.7: Bachelor of Arts \(B.A.\) - Joint Honours Component World Islamic & Middle East Studies \(36 credits\)](#)

4.9.4.2 Faculty of Science

There are currently only two Science Joint Honours components 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 \(36 credits\)](#)

Faculty of Science Joint Honours Programs

Psychology – [section 4.10.31.3: Bachelor of Arts \(B.A.\) - Joint Honours Component Psychology \(36 credits\)](#)

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 \(54 credits\)](#)

Environment – see [Bieler 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 \(54 credits\)](#)

Sustainability, Science and Society – [section 4.10.35.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability, Science and Society \(54 credits\)](#)

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** programs that are open to B.A. students (i.e., programs in Computer Science, Mathematics and Statistics, and Psychology as well as some in Geography)
- **Science Minors** that are open to B.A. & Sc. students
- B.A. & Sc. **Science** programs that are open only to B.A. & Sc. students

For a list of B.A. & Sc. programs, see [section 4.9: Overview of Programs Offered](#).

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 in the Undergraduate Handbook (see Your First Year) mcgill.ca/science/undergraduate/handbook.

4.10.2.1 Bachelor of Arts and Science (B.A. & Sc.) - Freshman Program (30 credits)

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.

Foundational Courses

The Freshman Program requirements include foundational courses in both Science and Arts which must be selected as follows:

MATH

At least two mathematics courses:

At most one of a First Calculus:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

At most one of a Second Calculus:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

At most one of a Linear Algebra course:

MATH 133	(3)	Linear Algebra and Geometry
MATH 134	(3)	Enriched Linear Algebra and Geometry

SCIENCE

At least three foundational science courses:

Any number of:

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

* Note: CHEM 120 is not open to students who have taken CHEM 115.

At most one of a First Physics:

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

At least three Arts courses (or 9 credits) to be chosen in two of the following three categories: Humanities, Languages, and Social Sciences.

A maximum of two courses (or 6 credits) may be chosen from one category, and no more than two courses (or 6 credits) can be taken in any one department.

Note: No course may fulfil the requirements for more than one program, including the B.A. & Sc. Freshman Program.

Humanities (Literature and Civilization):

Courses selected from the following subjects:

- Art History and Communications Studies (ARTH and COMS)
- Classics (CLAS)
- East Asian Studies (EAST)
- English (ENGL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (HISP)
- Islamic Studies (ISLA)
- Italian studies (ITAL)
- Jewish Studies (JWST)
- Music for Arts (MUAR only)
- Philosophy (PHIL)
- Religious Studies (RELG)
- Russian Studies (RUSS)

Languages:

Courses may be taken in this category to improve language skills.

Languages include:

- Classics (Latin, Ancient Greek, Modern Greek) (CLAS)
- East Asian Studies (Chinese, Japanese, Korean) (EAST)
- English as a Second Language (CEAP, CESL)
- French as a Second Language (FRSL)
- French Language and Literature (FREN)
- German Studies (GERM)
- Hispanic Studies (Spanish) (HISP)
- Islamic Studies (Arabic, Persian, Turkish, Urdu) (ISLA)
- Italian (ITAL)
- Jewish Studies (Hebrew, Yiddish) (JWST)
- Russian and Slavic Studies (Polish, Russian, Armenian, Czech) (RUSS)

Social Sciences:

Courses selected from the following subjects:

- Anthropology (ANTH)
- Economics (ECON)
- History (HIST)
- Linguistics (LING)
- Political Science (POLI)
- Sociology (SOCI)

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)

The Department of Art History and Communication Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.5: Art History and Communication Studies \(ARTH & COMS\)](#).

4.10.4.1 Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)

The Minor Concentration in Art History provides an introduction to the study of diverse artistic traditions from ancient to contemporary times. It is expandable to the Major Concentration Art History.

Complementary Courses (18 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline.

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

3-15 complementary courses chosen from among departmental course offerings. At least 9 of these credits must be at the 300 level or above.

Note: Courses in studio practice cannot be counted towards the Minor Concentration.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700

ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course

ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

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 transformation of media and communication forms, institutions, practices and technologies, and the mass media representation and mobilization of social difference.

Required Course (3 credits)

COMS 210	(3)	Introduction to Communication Studies
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Complementary Courses (15 credits)

Five courses in Communication Studies selected from:

COMS 200	(3)	History of Communication
COMS 230	(3)	Communication and Democracy
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 301	(3)	Core Concepts in Critical Theory
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
COMS 340	(3)	New Media
COMS 350	(3)	Sound Culture
COMS 354	(3)	Media Studies of Crime
COMS 355	(3)	Media Governance
COMS 361	(3)	Selected Topics Communication Studies 1
COMS 362	(3)	Selected Topics Communication Studies 2
COMS 400	(3)	Critical Theory Seminar
COMS 410	(3)	Cultures in Visualization
COMS 411	(3)	Disability, Technology and Communication

COMS 425	(3)	Urban Culture and Everyday Life
COMS 435	(3)	Advanced Issues in Media Governance
COMS 490	(3)	Special Topics in History and Theory of Media
COMS 491	(3)	Special Topics in Communications Studies
COMS 492	(3)	Power, Difference and Justice
COMS 495	(3)	Directed Reading
COMS 497	(3)	Independent Study
COMS 510	(3)	Canadian Broadcasting Policy

4.10.4.3 Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)

The Major Concentration in Art History concentrates on analysis of forms of visual and material culture from ancient to contemporary times. It provides a grounding in diverse fields and methods of the discipline.

Complementary Courses (36 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

21-33 complementary credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (excluding ARTH 490 Museum Internship).

Note: Courses in studio practice cannot be counted toward the Major concentration.

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism

ARTH 324	(3)	Sixteenth-Century Art in Italy
ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2

PHIL 336	(3)	Aesthetics
PHIL 436	(3)	Aesthetics 2

4.10.4.4 Bachelor of Arts (B.A.) - Joint Honours Component Art History (36 credits)

The Joint Honours Component Art History is a flexible program that emphasizes breadth, depth as well as art historical methods and research. It is designed especially for students who anticipate pursuing graduate studies and careers in art history or related disciplines.

Students are encouraged to apply for admission to the Joint Honours program after their first year of study at the University and after completion of no less than 12 credits in Art History. Admission is on a competitive basis. While the Faculty of Arts regulations require a minimum CGPA of 3.0 for Honours programs, the Department requires in addition a program GPA of 3.50 for admission into the program and the awarding of Honours

Required Courses (6 credits)

ARTH 400	(3)	Selected Methods in Art History
ARTH 401	(3)	Honours Research Paper

Complementary Courses (30 credits)

3-15 credits from the following list, as an introduction to methods, theories, and practices in diverse fields of the discipline:

ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 315	(3)	Indigenous Art and Culture
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 357	(3)	Early Chinese Art

15-27 credits chosen from among departmental course offerings as follows:

-A maximum of 12 credits may be at the 200 level.

-A minimum of 3 credits must be at the 400 level or above (other than ARTH 490 Museum Internship).

ARTH 200	(3)	Introduction to Art History 1
ARTH 202	(3)	Introduction to Contemporary Art
ARTH 204	(3)	Introduction to Medieval Art and Architecture
ARTH 205	(3)	Introduction to Modern Art
ARTH 207	(3)	Introduction Early Modern Art 1400-1700
ARTH 209	(3)	Introduction to Ancient Art and Architecture
ARTH 215	(3)	Introduction to East Asian Art
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 225	(3)	Introduction to Seventeenth - Century Art
ARTH 226	(3)	Introduction to Eighteenth-Century Art and Architecture
ARTH 300	(3)	Canadian Art to 1914
ARTH 302	(3)	Aspects of Canadian Art
ARTH 305	(3)	Methods in Art History
ARTH 310	(3)	Postcolonialism
ARTH 314	(3)	The Medieval City
ARTH 315	(3)	Indigenous Art and Culture
ARTH 321	(3)	Visual Culture of the Dutch Republic
ARTH 323	(3)	Realism and Impressionism
ARTH 324	(3)	Sixteenth-Century Art in Italy

ARTH 325	(3)	Visual Culture Renaissance Venice
ARTH 326	(3)	Studies in Manuscript and Print Culture
ARTH 334	(3)	Eighteenth Century European Art
ARTH 335	(3)	Art in the Age of Revolution
ARTH 336	(3)	Art Now
ARTH 337	(3)	Modern Art and Theory to WWI
ARTH 338	(3)	Modern Art and Theory: WWI - WWII
ARTH 339	(3)	Critical Issues - Contemporary Art
ARTH 340	(3)	The Gothic Cathedral
ARTH 351	(3)	Vision and Visuality in Art History
ARTH 352	(3)	Feminism in Art and Art History
ARTH 353	(3)	Selected Topics in Art History 1
ARTH 354	(3)	Selected Topics Art History 2
ARTH 356	(3)	Modern and Contemporary Chinese Art
ARTH 357	(3)	Early Chinese Art
ARTH 358	(3)	Later Chinese Art (960-1911)
ARTH 360	(3)	Studies in the Photographic
ARTH 366	(3)	Italian Renaissance Art 1
ARTH 367	(3)	Italian Renaissance Art 2
ARTH 368	(3)	Studies in Northern Renaissance Art 01
ARTH 411	(3)	Canadian Art and Race
ARTH 420	(3)	Selected Topics in Art and Architecture 1
ARTH 421	(3)	Selected Topics in Art and Architecture 2
ARTH 422	(3)	Selected Topics in Art and Architecture 3
ARTH 425	(3)	Arts of Medieval Spain
ARTH 430	(3)	Concepts - Discipline Art History
ARTH 435	(3)	Early Modern Visual Culture
ARTH 440	(3)	The Body and Visual Culture
ARTH 447	(3)	Independent Research Course
ARTH 457	(3)	Brushwork in Chinese Painting
ARTH 466	(3)	Studies in Italian Renaissance Art 01
ARTH 473	(3)	Studies in 17th and Early 18th Century Art 04
ARTH 474	(3)	Studies in Later 18th and 19th Century Art 03
ARTH 479	(3)	Studies: Modern Art and Theoretical Problems 04
ARTH 490	(3)	Museum Internship
ARTH 501	(3)	Advanced Topics in Art History and Visual Culture
ARTH 502	(3)	Advanced Topics in Art and Architectural History

Note: In addition to architectural courses given by the Department, program students are encouraged to consider courses given in the School of Architecture and the Departments of East Asian Studies and Philosophy which may, upon consultation with the Department, be regarded as fulfilling part of the requirements.

ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
PHIL 336	(3)	Aesthetics

PHIL 436 (3) Aesthetics 2

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

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 517 (3) Boundary Layer Meteorology
 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 557 (3) Research Methods: Atmospheric and Oceanic Science
 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 depending if they are exempt from taking CHEM 212 and their choice of complementary courses.

Required Courses* (13 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the Biology Adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Courses (6 credits)

Any 6 credits of biology courses at the 300 level or higher approved by the Biology Adviser.

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.

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 depending if they are exempt from taking CHEM 212 and their choice of complementary course.

Required Courses* (16 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. must be replaced by approved complementary courses. Regardless of the substitution, students must take at least 18 credits in this program.

** Students who have already taken CHEM 212 or its equivalent will choose another appropriate complementary course, to be approved by the adviser.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 215	(3)	Introduction to Ecology and Evolution
CHEM 212**	(4)	Introductory Organic Chemistry 1

Complementary Course (3 credits)

Any 3-credit biology course at the 300 level or higher approved by the Biology Adviser.

4.10.6.3 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Biology (36 credits)

The B.A. & Sc.; Major Concentration in Biology is a planned sequence of courses designed to promote a basic grounding in biology. Topics include a range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses (18 credits)

Students must take at least 36 new credits in this program.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 216	(3)	Biology of Behaviour

Complementary Courses (18 credits)

3-4 credits from CHEM block:

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1

*Students who have already taken CHEM 212 or its equivalent as advance credits may choose to substitute CHEM 204, or CHEM 222, or a 300-500 levels complementary Biology course, to be approved by the Biology Adviser.

3-4 credits from:

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 311	(3)	Advanced Methods in Organismal Biology

3 credits from:

BIOL 202	(3)	Basic Genetics
BIOL 302	(3)	Fundamentals of Genetics and Genomics

3 credits from:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 308	(3)	Ecological Dynamics
BIOL 313	(3)	Eukaryotic Cell Biology

4-6 credits from Biology courses at the 300-500 levels.

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)

This interdisciplinary program focuses on different aspects of Canada and its key institutions, with an emphasis on public affairs. The Minor Concentration enables students to take courses about Canada outside the areas of their other major or minor concentrations.

Required Courses (6 credits)

CANS 200	(3)	Understanding Canada
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CANS 420 (3) Shaping Public Affairs in Canada

Complementary Courses (12 credits)

3 credits chosen from:

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
INDG 200	(3)	Introduction to Indigenous Studies
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
QCST 200	(3)	Introduction to the Study of Quebec
SOCI 230	(3)	Sociology of Ethnic Relations

3-9 credits in interdisciplinary Canadian Studies (CANS) courses from the following:

CANS 300	(3)	Topics in Canadian Studies 1
CANS 301	(3)	Topics in Canadian Studies 2
CANS 306	(3)	Topics in Indigenous Public Affairs
CANS 307	(3)	Canada in the World
CANS 308	(3)	Sex and Gender in Canada
CANS 310	(3)	Canadian Cultures: Context and Issues
CANS 311	(3)	Topics in Canadian Public Affairs 1
CANS 312	(3)	Topics in Canadian Public Affairs 2
CANS 315	(3)	Indigenous Art and Culture
CANS 401	(3)	Canadian Studies Seminar 1
CANS 402	(3)	Canadian Studies Seminar 2
CANS 404	(3)	Canadian Studies Seminar 4
CANS 405	(3)	Canadian Studies Seminar 5
CANS 406	(3)	Canadian Studies Seminar 6
CANS 412	(3)	Canada and Americas Seminar
CANS 413	(3)	Canada and Quebec Seminar
CANS 499	(3)	Internship - Canadian Studies

0-6 credits chosen from:

ANTH 338	(3)	Indigenous Studies of Anthropology
ARTH 302	(3)	Aspects of Canadian Art
ECON 303	(3)	Canadian Economic Policy
ECON 305	(3)	Industrial Organization
ECON 308	(3)	Governmental Policy Towards Business

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 393	(3)	Canadian Cinema
FREN 315	(3)	Cinéma québécois
HIST 303	(3)	History of Quebec
HIST 342	(3)	Canada and the World
HIST 343	(3)	Women in Post-Confederation Canada
HIST 357	(3)	Cultural Diversity in Canada
HIST 363	(3)	Canada 1870-1914
HIST 364	(3)	Canada 1914-1945
HIST 367	(3)	Canada since 1945
LING 325	(3)	Canadian English
POLI 336	(3)	Le Québec et le Canada
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 417	(3)	Health Care in Canada
POLI 426	(3)	Partis politiques et comportements électoraux au Québec
POLI 478	(3)	The Canadian Constitution
QCST 300	(3)	Quebec Culture and Society
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.7.2 Bachelor of Arts (B.A.) - Minor Concentration Indigenous Studies (18 credits)

The Minor Concentration in Indigenous Studies provides students with a broad, interdisciplinary view of key issues in the historical, social and cultural dimensions of Indigenous life in Canada. Core courses offered within the program will provide interdisciplinary treatments of Indigenous life. The Program will focus on the history of indigenous populations in Canada, Aboriginal art and culture, the experience of indigeneity and gender, and legacies of Indigenous resistance to the Canadian state.

Required Courses (6 credits)

INDG 200	(3)	Introduction to Indigenous Studies
INDG 401	(3)	Interdisciplinary Seminar in Indigenous Studies

Complementary Courses (12 credits)

A maximum of 3 complementary course credits at the 200-level. A maximum of 6 credits from any given discipline with the exception of Indigenous Studies (INDG) courses.

Anthropology

ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 436	(3)	North American Native Peoples

Canadian Studies

CANS 306	(3)	Topics in Indigenous Public Affairs
CANS 315	(3)	Indigenous Art and Culture

English

ENGL 297	(3)	Special Topics of Literary Study
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ENGL 440 (3) First Nations and Inuit Literature and Media

Gender, Sexuality, and Feminist Studies

GSFS 307 (3) Indigenous Feminisms

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

Indigenous Studies

INDG 202 (3) Topics in Indigenous Studies 1
 INDG 300 (3) Topics in Indigenous Studies 2
 INDG 301 (3) Indigenous Contemporary Resistance
 INDG 302 (3) Introduction to Kanien'ké:ha
 INDG 400 (3) Seminar: Indigenous Studies
 INDG 420 (3) Indigenous Food Sovereignty
 INDG 450 (3) Rotinonhsón:ni Land-Based Pedagogy

Interdisciplinary Field Course

IDFC 500 (3) Indigenous Field Studies

Law

CMPL 500 (3) Indigenous Peoples and the State
 CMPL 500D1 (1.5) Indigenous Peoples and the State
 CMPL 500D2 (1.5) Indigenous Peoples and the State

Linguistics

LING 211 (3) Introduction to Indigenous Languages
 LING 411 (3) Structure of an Indigenous Language

Political Science

POLI 372 (3) Indigenous Peoples and the Canadian State

POLI 436 (3) Aboriginal Rights in the Canadian Constitution

4.10.8 Chemistry (CHEM)

The Department of Chemistry, the discipline, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.7: Chemistry \(CHEM\)](#).

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 minimum freshman science requirements in the B.A. & Sc. may not satisfy the introductory science requirements of all medical/dental schools (see [section 4.10.2.1: Bachelor of Arts and Science \(B.A. & Sc.\) - Freshman Program \(30 credits\)](#)).

4.10.8.1 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.

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 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

David Ragsdale; Director, Program in Cognitive Science

Website: mcgill.ca/cogsci

Interdisciplinary Programs Adviser: Ryan Bouma; ryan.bouma@mcgill.ca, 514-398-5442

4.10.9.2 About Cognitive Science

Cognitive Science is the multidisciplinary study of cognition in humans, animals, and machines. The goal is to understand the principles of intelligence and thought with the hope that this will lead to a better understanding of the mind and of learning, and to the development of intelligent devices.

An **Interfaculty Program in Cognitive Science** (54 credits) is offered in partnership with the following departments:

- Computer Science (Science)
- Linguistics (Arts)
- Neuroscience (Science)
- Philosophy (Arts)
- Psychology (Science)

Cognitive Science Committee Members

Timothy J. O'Donnell (*Linguistics*)

Blake Richards (*Computer Science*)

Ian Gold (*Philosophy*)

Milica Mio evi (*Psychology*)

4.10.9.3 Bachelor of Arts and Science (B.A. & Sc.) - Honours Cognitive Science (60 credits)

The Honours Cognitive Science, which is restricted to students in the B.A. & Sc., is an extension of the Interfaculty program and offers students an opportunity to undertake a research project in close association with professors in their main Arts and Science focus areas. Prior to selecting the Honours program, students should meet with the Interdisciplinary Program Adviser and review the B.A. & Sc. academic requirements for Honours and First Class Honours, which can also be found under "University Regulations and Resources," "Graduation," and "Graduation Honours."

To receive an Honours degree, students are required to achieve a minimum overall program GPA of 3.3 at graduation, and attain a grade of B+ (3.3) or better in COGS 444. Students must complete both the 60-credit Honours program and an approved minor concentration or a minor in the Faculties of Arts or of Science.

Note: B.A. & Sc. students who take interfaculty programs, including the Honours in Cognitive Science, 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 (9 credits)

COGS 444	(6)	Honours Research
NSCI 201	(3)	Introduction to Neuroscience 2

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:

PHIL 200	(3)	Introduction to Philosophy 1
PHIL 201	(3)	Introduction to Philosophy 2
PHIL 221	(3)	Introduction to History and Philosophy of Science 2

3 credits from the following neuroscience courses:

NSCI 200*	(3)	Introduction to Neuroscience 1
PSYC 211	(3)	Introductory Behavioural Neuroscience

3 credits from the following psychology courses:

PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition

Complementary Courses (30 credits)

30 credits selected as follows:

18 credits from one of the following lists: Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.

12 credits from any of the five lists.

Of the 30 credits Complementary Course credits, 15 credits taken must be at the 400 level or higher.

Computer Science

COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 280	(3)	History and Philosophy of Computing
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 345	(3)	From Natural Language to Data Science
COMP 360	(3)	Algorithm Design
COMP 400	(4)	Project in Computer Science
COMP 409	(3)	Concurrent Programming
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 445	(3)	Computational Linguistics
COMP 451	(3)	Fundamentals of Machine Learning
COMP 523	(3)	Language-based Security
COMP 527	(3)	Logic and Computation
COMP 531	(3)	Advanced Theory of Computation
COMP 546	(4)	Computational Perception
COMP 549	(3)	Brain-Inspired Artificial Intelligence
COMP 550	(3)	Natural Language Processing
COMP 551	(4)	Applied Machine Learning
COMP 558	(4)	Fundamentals of Computer Vision
COMP 562	(4)	Theory of Machine Learning
COMP 579	(4)	Reinforcement Learning
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Linguistics

Any course at the 300, 400 or 500 level from the department of Linguistics, or from the following list:

LING 201	(3)	Introduction to Linguistics
LING 210	(3)	Introduction to Speech Science
LING 260	(3)	Meaning in Language

Philosophy

NSCI 300	(3)	Neuroethics
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic

PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 370	()	
PHIL 410	()	
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 319	(3)	Computational Models - 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 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 439	(3)	Correlational Techniques
PSYC 443	(3)	Affective Neuroscience
PSYC 470	(3)	Memory and Brain
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 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

Neuroscience

* Students select either NSCI 200 or PHGY 209, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 414	(3)	Invertebrate Brain Circuits and Behaviours
BIOL 506	(3)	Neurobiology of Learning
BIOL 507	(3)	Animal Communication
BIOL 517	(3)	Cognitive Ecology
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
NEUR 503	(3)	Computational Neuroscience
NEUR 507	(3)	Topics in Radionuclide Imaging
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 315	(3)	Computational Psychology
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 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYT 301	(3)	Issues in Drug Dependence
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 515	(3)	Advanced Studies in Addiction

Research Course

COGS 401	(6)	Research Cognitive Science 1
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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:

PHIL 200 (3) Introduction to Philosophy 1
 PHIL 201 (3) Introduction to Philosophy 2
 PHIL 221 (3) Introduction to History and Philosophy of Science 2

3 credits from the following neuroscience courses:

NSCI 200* (3) Introduction to Neuroscience 1
 PSYC 211 (3) Introductory Behavioural Neuroscience

3 credits from the following psychology courses:

PSYC 212 (3) Perception
 PSYC 213 (3) Cognition

Complementary Courses

30 credits are selected as follows

18 credits from one of the following lists: Computer Science, Linguistics, Neuroscience, Philosophy, or Psychology.

12 credits from any of the five lists.

Of the 30 Complementary Course credits, 15 credits taken must be at the 400 level or higher.

Computer Science

COMP 206 (3) Introduction to Software Systems
 COMP 250 (3) Introduction to Computer Science
 COMP 251 (3) Algorithms and Data Structures
 COMP 280 (3) History and Philosophy of Computing
 COMP 302 (3) Programming Languages and Paradigms
 COMP 330 (3) Theory of Computation
 COMP 345 (3) From Natural Language to Data Science
 COMP 360 (3) Algorithm Design
 COMP 400 (4) Project in Computer Science

COMP 409	(3)	Concurrent Programming
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 421	(3)	Database Systems
COMP 424	(3)	Artificial Intelligence
COMP 445	(3)	Computational Linguistics
COMP 451	(3)	Fundamentals of Machine Learning
COMP 523	(3)	Language-based Security
COMP 527	(3)	Logic and Computation
COMP 531	(3)	Advanced Theory of Computation
COMP 546	(4)	Computational Perception
COMP 549	(3)	Brain-Inspired Artificial Intelligence
COMP 550	(3)	Natural Language Processing
COMP 551	(4)	Applied Machine Learning
COMP 558	(4)	Fundamentals of Computer Vision
COMP 562	(4)	Theory of Machine Learning
COMP 579	(4)	Reinforcement Learning
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Linguistics

Any course at the 300, 400 or 500 level from the department of Linguistics, or from the following list:

LING 201	(3)	Introduction to Linguistics
LING 210	(3)	Introduction to Speech Science
LING 260	(3)	Meaning in Language

Philosophy

NSCI 300	(3)	Neuroethics
PHIL 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 1
PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 370	(0)	
PHIL 410	(0)	
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 319	(3)	Computational Models - 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 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 439	(3)	Correlational Techniques
PSYC 443	(3)	Affective Neuroscience
PSYC 470	(3)	Memory and Brain
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYC 531	(3)	Structural Equation Models
PSYC 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

Neuroscience

* Students select either NSCI 200 or PHGY 209, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 414	(3)	Invertebrate Brain Circuits and Behaviours
BIOL 506	(3)	Neurobiology of Learning
BIOL 507	(3)	Animal Communication
BIOL 517	(3)	Cognitive Ecology
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
NEUR 503	(3)	Computational Neuroscience
NEUR 507	(3)	Topics in Radionuclide Imaging
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 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention

PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYT 301	(3)	Issues in Drug Dependence
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 502	(3)	Brain Evolution and Psychiatry
PSYT 515	(3)	Advanced Studies in Addiction

Research Course

COGS 401	(6)	Research Cognitive Science 1
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4.10.10 Computer Science (COMP)

The School of Computer Science and the discipline are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.9: Computer Science \(COMP\)](#).

The following are considered Science programs in the B.A. & Sc.:

- Minor Concentration in Computer Science
- Major Concentration in Computer Science
- Major Concentration in Software Engineering

4.10.10.1 Bachelor of Arts (B.A.) - Minor Concentration Computer Science (18 credits)

The Minor Concentration Computer Science is designed for students who want to gain a basic understanding of computer science principles and may be taken in conjunction with any program in the Faculty of Arts.

Students are strongly encouraged to talk to an adviser of the School before choosing their complementary courses to ensure they follow an approved course sequence.

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Required Courses (9 credits)

* Students who have sufficient knowledge of programming should not take COMP 202, and instead should replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science

Complementary Courses (9 credits)

9 credits selected from the following list or from Computer Science (COMP) courses at the 300 level or above excluding COMP 364 and COMP 396.

COMP 230	(3)	Logic and Computability
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 280	(3)	History and Philosophy of Computing
MATH 240	(3)	Discrete Structures

4.10.10.2 Bachelor of Arts (B.A.) - Major Concentration Computer Science (36 credits)

This Major concentration represents an in-depth introduction to computer science and its sub-areas. Students that are interested in further study in Computer Science can combine the Major Concentration Computer Science with the Supplementary Minor in Computer Science to constitute a program very close to the Major Computer Science offered by the Faculty of Science. For further information, please consult the Program Adviser.

Students with two programs in the same department/unit must have a third program in a different department/unit to be eligible to graduate. Please refer to the Faculty of Arts regulations for "Faculty Degree Requirements," "About Program Requirements," and "Departmental Programs" for the Multi-track System options.

Required Courses (18 credits)

MATH 133, MATH 140, and MATH 141 (or their equivalents) should be completed prior to taking courses in this program.

Notes for the list below:

* Students who have sufficient knowledge in programming do not need to take COMP 202 and should replace it with an additional computer science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
MATH 240	(3)	Discrete Structures

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits from each of the groups A, B, C, and D:

Group A:

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

MATH 223	(3)	Linear Algebra
MATH 318	(3)	Mathematical Logic
MATH 340	(3)	Discrete Mathematics

Group C:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

Group D:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from COMP 230 and COMP courses at the 300 level or above (except COMP 364, COMP 396).

4.10.10.3 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Software Engineering (37 credits)

The Major Concentration Software Engineering focuses on the techniques and methodology required to design and develop complex software systems and covers the subject commonly known as "Software Engineering."

MATH 133, MATH 140, and MATH 141 (or their equivalents) must be completed prior to taking courses in this program.

Note: This program does not lead to certification as a Professional Engineer.

Required Courses (30 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 and can replace it with additional computer science complementary course credits.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design
COMP 421	(3)	Database Systems
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (7 credits)

At least 7 credits from:

COMP 322	(1)	Introduction to C++
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
ECSE 326	(3)	Software Requirements Engineering
ECSE 437	(3)	Software Delivery
ECSE 539	(4)	Advanced Software Language Engineering

or any COMP courses at the 300 level or above, excluding COMP 364 and COMP 396.

4.10.11 Earth and Planetary Sciences (EPSC)

The Department of Earth and Planetary Sciences, the programs, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.10: Earth and Planetary Sciences \(EPSC\)](#).

4.10.11.1 Bachelor of Science (B.Sc.) - Minor Geology (18 credits)

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (12 credits)

3 credits, one of:

EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

EPSC 231	(3)	Field School 1
EPSC 303	(3)	Structural Geology
EPSC 334	(3)	Invertebrate Paleontology
EPSC 350	(3)	Tectonics
EPSC 452	(3)	Mineral Deposits
EPSC 561	(3)	Ore-forming Processes

4.10.12 East Asian Studies (EAST)

East Asian Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.9: East Asian Studies \(EAST\)](#).

4.10.12.1 Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)

This program may be expanded to the Major Concentration East Asian Studies.

Introduction to East Asian Culture

6 credits, two of the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

East Asian Literature, Culture and Society

12 credits of courses in East Asian Literature, Culture and Society selected from the list below.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies
EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1

EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
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	()	
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	()	
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 329	()	
ANTH 331	(3)	Prehistory of East Asia
ANTH 500	(3)	Chinese Diversity and Diaspora

Economics (ECON)

ECON 335	(3)	The Japanese Economy
ECON 411	(3)	Economic Development: A World Area

History (HIST)

HIST 208	(3)	Introduction to East Asian History
HIST 218	(3)	Modern East Asian History
HIST 308	(3)	Formation of Chinese Tradition
HIST 318	()	
HIST 338	(3)	Twentieth-Century China
HIST 358	(3)	China's Middle Empires
HIST 439	(3)	History of Women in China
HIST 441	(3)	Topics: Culture and Ritual in China
HIST 442	(3)	Asian Diaspora: Chinese Overseas
HIST 443	(3)	Topics: Modern Japan
HIST 445	(3)	Late Imperial China
HIST 508	(3)	The Art of War in China
HIST 568D1	(3)	Topics in Chinese History
HIST 568D2	(3)	Topics in Chinese History
HIST 578D1	(3)	Seminar in Japanese History
HIST 578D2	(3)	Seminar in Japanese History

Management (ORGB)

ORGB 380	(3)	Cross Cultural Management
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Political Science (POLI)

POLI 349	(3)	Foreign Policy: Asia
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Religious Studies (RELG)

RELG 253	(3)	Religions of East Asia
RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 344	(3)	Mahayana Buddhism
RELG 352	(3)	Japanese Religions: History and Thought
RELG 354	(3)	Chinese Religions
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 442	(3)	Pure Land Buddhism
RELG 443	(0)	
RELG 451	(3)	Zen Buddhism: Poetry and Art
RELG 452	(0)	
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: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan

EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
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

4.10.12.3 Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)

This program may not be expanded to the Major Concentration East Asian Studies.

The program offers students who have a background in an East Asian language the opportunity to study this language at the advanced level (300 level and above), including the classical language.

Complementary Courses (18 credits)

There are two options.

18 credits in second, third, or fourth level language courses in a single East Asian language, or a combination of an advanced language and other courses in East Asian culture, literature, or society at the 300 level or above, chosen in consultation with the Departmental Program Adviser.

4.10.12.4 Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)

Complementary Courses (36 credits)

Introduction to East Asian Culture

3-6 credits from the following courses:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits from the following:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

6-9 credits of East Asian language courses selected from the list below.

Note: Admission to language courses is subject to placement tests.

EAST 220D1	(4.5)	First Level Korean
EAST 220D2	(4.5)	First Level Korean
EAST 230D1	(4.5)	First Level Chinese
EAST 230D2	(4.5)	First Level Chinese
EAST 240D1	(4.5)	First Level Japanese
EAST 240D2	(4.5)	First Level Japanese
EAST 241	(3)	Japanese Writing Beginners 1
EAST 242	(3)	Japanese Writing Beginners 2
EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese

EAST 533	(3)	Classical Chinese 1
EAST 534	(3)	Classical Chinese 2
EAST 535	(3)	Chinese for Business 1
EAST 536	(3)	Chinese for Business 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(0)	
EAST 544	(3)	Classical Japanese 2
EAST 547	(0)	

East Asian Literature, Culture and Society

21-24 credits of courses in East Asian Literature, Culture and Society selected from the list below. At least 6 credits must be taken at the 400 or 500 level.

East Asian Studies (EAST)

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies
EAST 279	(3)	Introduction to Film History
EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 328	(3)	Archaeology East Asian Empires
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia

EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia
EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
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	()	
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	()	
LLCU 279	(3)	Introduction to Film History

Anthropology (ANTH)

ANTH 328	()	
ANTH 329	()	
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

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 ()
 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)

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 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 ()
 RELG 451 (3) Zen Buddhism: Poetry and Art
 RELG 452 ()
 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)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00. In addition, Joint Honours students must maintain a minimum GPA of 3.30 in program courses.

Required Course (3 credits)

EAST 495D1	(1.5)	Joint Honours Thesis: East Asian Studies
EAST 495D2	(1.5)	Joint Honours Thesis: East Asian Studies

Complementary Courses (33 credits)

Introduction to East Asian Culture

3-6 credits from:

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 212	(3)	Introduction: East Asian Culture: Japan
EAST 213	(3)	Introduction: East Asian Culture: Korea

0-3 credits selected from:

EAST 215	(3)	Introduction to East Asian Art
EAST 250	(3)	Introduction to Asian Media Studies

East Asian Language

18 credits in an East Asian language above the introductory level selected from the following courses:

EAST 320D1	(4.5)	Second Level Korean
EAST 320D2	(4.5)	Second Level Korean
EAST 330D1	(4.5)	Second Level Chinese
EAST 330D2	(4.5)	Second Level Chinese
EAST 340D1	(4.5)	Second Level Japanese
EAST 340D2	(4.5)	Second Level Japanese
EAST 341	(3)	Japanese Writing Intermediate 1
EAST 342	(3)	Japanese Writing Intermediate 2
EAST 420	(3)	Third Level Korean 1
EAST 421	(3)	Third Level Korean 2
EAST 430D1	(3)	Third Level Chinese
EAST 430D2	(3)	Third Level Chinese
EAST 440D1	(3)	Third Level Japanese
EAST 440D2	(3)	Third Level Japanese
EAST 530D1	(3)	Fourth Level Chinese
EAST 530D2	(3)	Fourth Level Chinese
EAST 533	(3)	Classical Chinese 1

EAST 534	(3)	Classical Chinese 2
EAST 540D1	(3)	Fourth Level Japanese
EAST 540D2	(3)	Fourth Level Japanese
EAST 543	(3)	Classical Japanese 1
EAST 544	(3)	Classical Japanese 2
EAST 547	(3)	Advanced Translation in Japanese

East Asian Studies (EAST)

9 credits chosen from the following East Asian Studies courses, at least 3 credits must be at the 400-level or above.

EAST 303	(3)	Current Topics: Chinese Studies 1
EAST 304	(3)	Current Topics: Chinese Studies 2
EAST 305	(3)	Current Topics: Japanese Studies 1
EAST 306	(3)	Current Topics: Japanese Studies 2
EAST 307	(3)	Topics: East Asian Language and Literature 1
EAST 308	(3)	Topics: East Asian Language and Literature 2
EAST 313	(3)	Current Topics: Korean Studies 1
EAST 314	(3)	Current Topics: Korean Studies 2
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 352	(3)	Critical Approaches to Chinese Literature
EAST 353	(3)	Approaches to Chinese Cinema
EAST 356	(3)	Modern and Contemporary Chinese Art
EAST 358	(3)	Later Chinese Art (960-1911)
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 363	(3)	Early and Medieval Japan
EAST 364	(3)	Mass Culture and Postwar Japan
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 370	(3)	History of Sexuality in Japan
EAST 372	(3)	Topics in Television: Asia
EAST 375	(3)	Korean Media and Popular Culture
EAST 377	(3)	Topics: Transnational Asian Culture
EAST 385	(3)	Global Korea
EAST 388	(3)	Asian Migrations and Diasporas
EAST 389	(3)	Global Cinema and Media Asia
EAST 390	(3)	The Chinese Family in History
EAST 453	(3)	Topics: Chinese Literature
EAST 454	(3)	Topics: Chinese Cinema
EAST 461	(3)	Inventing Modern Japanese Novel
EAST 462	(3)	Japan in Asia
EAST 464	(3)	Image, Text, Performance
EAST 467	(3)	Topics: Japanese Cinema
EAST 468	(3)	Science and Technology: Asia

EAST 477	(3)	Media and Environment in Asia
EAST 478	(3)	Topics: Korean Film and Media
EAST 491	(3)	Tutorial: East Asian Languages and Literatures 1
EAST 492	(3)	Tutorial: East Asian Languages and Literatures 2
EAST 493	(3)	Special Topics: East Asian Studies 1
EAST 494	(3)	Special Topics: East Asian Studies 2
EAST 501	(3)	Advanced Topics in Japanese Studies 1
EAST 502	(3)	Advanced Topics in Japanese Studies 2
EAST 503	(3)	Advanced Topics in Chinese Studies 1
EAST 504	(3)	Advanced Topics in Chinese Studies 2
EAST 505	(3)	Advanced Topics in Korean Studies
EAST 515	(3)	Seminar: Beyond Orientalism
EAST 525	(3)	Critical Area Studies in Asia
EAST 527	(3)	Culture and Capital in Asia
EAST 550	(3)	Classical Chinese Poetry Themes and Genres
EAST 551	(3)	Technologies of Self in Early China
EAST 559	(3)	Advanced Topics: Chinese Literature
EAST 562	(3)	Japanese Literary Theory and Practice
EAST 563	(3)	Images, Ideograms, Aesthetics
EAST 564	(3)	Structures of Modernity: Asia
EAST 569	(3)	Advanced Topics: Japanese Literature
EAST 582	(3)	Japanese Culture and Society

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 3.10.10: 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 website at www.mcgill.ca/desautels/programs/bcom/academics/areas-study/economics/minor-concentration-economics. 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.

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.

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. Note that graduation with Honours has more stringent requirements (see below) than these.

For graduation with the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and a CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and a CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

Students also have to meet the requirements of the other component of this program and of the relevant Faculty for Honours and First Class Honours.

Program Prerequisites (0-10 credits)

For entering the program:

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Or equivalent (to be completed prior to U2)

** Or equivalent

Required Courses (27 credits)

Please refer to the Department's document "Rules on Stats Courses for Economics Students" available at: <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 Course (3 credits)

3 credits from:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

4.10.14 English (ENGL)

The Department of English, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.13: English \(ENGL\)](#).

4.10.14.1 Bachelor of Arts (B.A.) - Minor Concentration English - Cultural Studies (18 credits)

The Minor Concentration English - Cultural Studies may be expanded to the Major Concentration English - Cultural Studies.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies

Complementary Courses (12 credits)

12 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Major Figures

3 credits from a list of courses on Major Figures in Cultural Studies:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

Additional Cultural Studies

6 additional credits from the option's offerings which includes all the courses specifically listed in the Cultural Studies categories above and the courses listed below. Any ENGL course not on these Cultural Studies lists, such as courses in Literature, may not count toward the Minor Concentration English - Cultural Studies.

ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 354	(3)	Sexuality and Representation
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 440	(3)	First Nations and Inuit Literature and Media
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 482	(3)	International Cinema 2

4.10.14.2 Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)

The Minor Concentration English - Drama and Theatre may be expanded to the Major Concentration English - Drama and Theatre.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (3 credits)

ENGL 230 (3) Introduction to Theatre Studies

Complementary Courses (15 credits)

15 credits selected as described below.

Theatre History Courses

3 credits from a list of courses in Theatre History:

ENGL 306 (3) Theatre History: Medieval and Early Modern
 ENGL 309 (3) English Renaissance Drama 2
 ENGL 310 (3) Restoration and 18th Century Drama
 ENGL 312 (3) Victorian and Edwardian Drama 1
 ENGL 370 (3) Theatre History: The Long Eighteenth Century
 ENGL 371 (3) Theatre History: 19th to 21st Centuries
 ENGL 467 (3) Advanced Studies in Theatre History
 ENGL 485 (3) Special Topics in Theatre History 1700-1900
 ENGL 486 (3) Special Topics in Theatre History After 1900

Drama and Theatre Courses Before 1900

3 credits from a list of courses in Drama and Theatre before 1900:

ENGL 306 (3) Theatre History: Medieval and Early Modern
 ENGL 308 (3) English Renaissance Drama 1
 ENGL 309 (3) English Renaissance Drama 2
 ENGL 310 (3) Restoration and 18th Century Drama
 ENGL 312 (3) Victorian and Edwardian Drama 1
 ENGL 315 (3) Shakespeare
 ENGL 370 (3) Theatre History: The Long Eighteenth Century
 ENGL 416 (3) Studies in Shakespeare
 ENGL 485 (3) Special Topics in Theatre History 1700-1900

Drama and Theatre Courses at the 400 level

3 credits from a list of Drama and Theatre courses:

ENGL 407 (3) The 20th Century
 ENGL 413 (3) Special Topics in Canadian Drama and Theatre
 ENGL 430 (3) Studies in Drama
 ENGL 431 (3) Studies in Drama
 ENGL 458 (3) Theories of Text and Performance 1
 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 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

4.10.14.3 Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)

The Minor Concentration English - Literature may be expanded to the Major Concentration English - Literature.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

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
ENGL 401	(3)	Studies in the 17th Century
ENGL 403	(3)	Studies in the 18th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 452	(3)	Studies in Old English
ENGL 456	(3)	Middle English

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories for the Major Concentration in English - Literature program and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count.

ENGL 199	(3)	FYS: Form and Representation
ENGL 204	(3)	English Literature and the Bible
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1

ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory
ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

4.10.14.4 Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)

The Cultural Studies option concentrates on analysis of forms of cultural expression and symbolic interaction, and of the various media through which these may be disseminated and transformed. Such study concerns symbolic form, aesthetically based forms of analysis, and the various modes of criticism and theory relevant to media which contain both verbal and non-verbal elements. The aim is above all to hone students' analytical and interpretive skills while introducing them to specific critical approaches to cultural studies. This is not a major in journalism or communications; and while many of our graduates go on to do creative work in a variety of media, instruction in film and video production is not part of the curriculum.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 275	(3)	Introduction to Cultural Studies
ENGL 277	(3)	Introduction to Film Studies
ENGL 359	(3)	The Poetics of the Image

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm 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

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

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.

4.10.14.5 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 <http://www.mcgill.ca/english/>.

Required Courses (6 credits)

6 credits to be taken in the first two terms of the program

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (30 credits)

30 credits selected as described below.

3 credits from the following practice-based courses:

ENGL 269	(3)	Introduction to Performance
ENGL 365	(3)	Costuming for the Theatre 1
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 377	(3)	Costuming for the Theatre 2

Performance-Oriented Courses

3 credits from the list of Performance-Oriented Courses:

ENGL 365	(3)	Costuming for the Theatre 1
ENGL 367	(3)	Acting 2
ENGL 368	(3)	Stage Scenery and Lighting 1
ENGL 372	(3)	Stage Scenery and Lighting 2
ENGL 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2
ENGL 465D1	(4.5)	Theatre Laboratory
ENGL 465D2	(4.5)	Theatre Laboratory
ENGL 466D1	(3)	Directing for the Theatre
ENGL 466D2	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3

Drama and/or Theatre Courses with a Canadian Component

3 credits from the list of Drama and/or Theatre courses with a Canadian component:

ENGL 313	(3)	Canadian Drama and Theatre
ENGL 413	(3)	Special Topics in Canadian Drama and Theatre

Theory or Criticism Courses

3 credits from the list of Theory or Criticism courses:

ENGL 317	(3)	Theory of English Studies 1
ENGL 318	(3)	Theory of English Studies 2
ENGL 319	(3)	Theory of English Studies 3
ENGL 322	(3)	Theories of the Text
ENGL 346	(3)	Materiality and Sociology of Text
ENGL 352	(3)	Theories of Difference

Theatre History Courses

3 credits from the list of Theatre History courses:

ENGL 306	(3)	Theatre History: Medieval and Early Modern
ENGL 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 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 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

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 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
MUAR 387*	(3)	The Opera
PHIL 242	(3)	Introduction to Feminist Theory
PSYC 212	(3)	Perception

4.10.14.6 Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)

The Literature option provides a grounding in the basic texts and methods of the discipline as well as wide acquaintance with substantial areas of the field.

For the most up-to-date information on Department requirements and detailed course descriptions, please see the English Department Handbook at <http://www.mcgill.ca/english/>.

Required Courses (9 credits)

These courses should be taken in the first two terms of the program.

ENGL 202	(3)	Departmental Survey of English Literature 1
ENGL 203	(3)	Departmental Survey of English Literature 2
ENGL 311	(3)	Poetics

Complementary Courses (27 credits)

27 credits selected as described below.

Note on Topics Courses: The Department of English offers courses which change topic from academic year to academic year. Depending on the topic in a specific year, these courses may count toward different program requirements. At the time they register for a topics course, students should confirm with their program adviser the program requirement it fulfils for that academic year.

Canadian Literature

3 credits from a list of Canadian Literature courses:

ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 327	(3)	Canadian Prose Fiction 1
ENGL 328	(3)	Development of Canadian Poetry 1
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 409	(3)	Studies in a Canadian Author
ENGL 410	(3)	Theme or Movement Canadian Literature

ENGL 411 (3) Studies in Canadian Fiction

Theory or Criticism

3 credits from a list of courses on Theory or Criticism:

ENGL 317 (3) Theory of English Studies 1
 ENGL 318 (3) Theory of English Studies 2
 ENGL 319 (3) Theory of English Studies 3
 ENGL 322 (3) Theories of the Text
 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

6 credits, 3 credits each from two of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American:

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2

18 Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 403	(3)	Studies in the 18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2
ENGL 405	(3)	Studies in 19th Century Literature 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
ENGL 334	(3)	Victorian Poetry
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 405	(3)	Studies in 19th Century Literature 2

19th Century American

ENGL 326	(3)	19th Century American Prose
ENGL 422	(3)	Studies in 19th Century American Literature

Areas of English Literature

3 credits from one of the following areas: Early 20th Century, Modernist, Post-modernist, Contemporary:

Early 20th Century

ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1

Modernist

ENGL 335	(3)	The 20th Century Novel 1
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ENGL 361	(3)	Poetry of the 20th Century 1
ENGL 414	(3)	Studies in 20th Century Literature 1
ENGL 418	(3)	A Major Modernist Writer

Post-modernist

ENGL 320	(3)	Postcolonial Literature
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 443	(3)	Contemporary Women's Fiction

Contemporary

ENGL 320	(3)	Postcolonial Literature
ENGL 333	(3)	Development of Canadian Poetry 2
ENGL 336	(3)	The 20th Century Novel 2
ENGL 339	(3)	Canadian Prose Fiction 2
ENGL 362	(3)	Poetry of the 20th Century 2
ENGL 407	(3)	The 20th Century
ENGL 408	(3)	The 20th Century
ENGL 419	(3)	Studies in 20th Century Literature
ENGL 443	(3)	Contemporary Women's Fiction

Additional Literature

6 additional credits from ENGL offerings in Literature which includes all the courses specifically listed in the Literature categories above and the courses listed below. Any ENGL course not on these Literature lists, such as courses in Cultural Studies, may not count toward the Major Concentration in English - Literature.

ENGL 199	(3)	FYS: Form and Representation
ENGL 204	(3)	English Literature and the Bible
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 297	(3)	Special Topics of Literary Study
ENGL 338	(3)	Short Story
ENGL 343	(3)	Literature and Science 1
ENGL 345	(3)	Literature and Society
ENGL 354	(3)	Sexuality and Representation
ENGL 364	(3)	Creative Writing: Fiction 2
ENGL 369	(3)	Creative Writing: Playwriting
ENGL 385	(3)	Topics in Literature and Film
ENGL 394	(3)	Popular Literary Forms
ENGL 421	(3)	African Literature
ENGL 424	(3)	Irish Literature
ENGL 437	(3)	Studies in Literary Form
ENGL 438	(3)	Studies in Literary Form
ENGL 440	(3)	First Nations and Inuit Literature and Media
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
ENGL 460	(3)	Studies in Literary Theory

ENGL 461	(3)	Studies in Literary Theory 2
ENGL 464	(3)	Creative Writing: Poetry

Major Author

3 credits on a Major Author must be included in the 27 complementary course credits.

ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer

4.10.14.7 Bachelor of Arts (B.A.) - Joint Honours Component English - Cultural Studies (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs 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.) Applications will be considered by the Department's Honours Committee on the basis of the student's program GPA, at a minimum of 3.50. The application form is available in the Department's General Office (Arts 155), and the specific submission requirements are described by that form.

The 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 (9 credits)

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.

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:

ENGL 315	(3)	Shakespeare
ENGL 381	(3)	A Film-Maker 1
ENGL 409	(3)	Studies in a Canadian Author
ENGL 416	(3)	Studies in Shakespeare
ENGL 417	(3)	A Major English Poet
ENGL 418	(3)	A Major Modernist Writer
ENGL 481	(3)	A Film-Maker 2
ENGL 516	(3)	Shakespeare

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

Historical Dimension

3 credits from a list of courses in Cultural Studies with an historical dimension:

ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 363	(3)	Studies in the History of Film 3
ENGL 374	(3)	Film Movement or Period
ENGL 451	(3)	A Period in Cinema
ENGL 480	(3)	Studies in History of Film 1

400-Level Theory

3 credits from a list of 400-level courses in Cultural Studies with a theoretical component:

ENGL 454	(3)	Topics in Cultural Studies and Gender
ENGL 479	(3)	Philosophy of Film
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	(3)	Special Topics / Communications and Mass Media 2
ENGL 489	(3)	Culture and Critical Theory 1

ENGL 490	(3)	Culture and Critical Theory 2
ENGL 492	(3)	Image and Text

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

4.10.14.8 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 applications, and this website should also be consulted prior to contacting the Adviser.

Required Courses (6 credits)

ENGL 230	(3)	Introduction to Theatre Studies
ENGL 355	(3)	The Poetics of Performance

Complementary Courses (30 credits)

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:

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
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 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 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 416	(3)	Studies in Shakespeare
ENGL 467	(3)	Advanced Studies in Theatre History
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 376	(3)	Scene Study
ENGL 377	(3)	Costuming for the Theatre 2
ENGL 396	(3)	Theatre Practicum 1
ENGL 397	(3)	Theatre Practicum 2

ENGL 465D1*	(4.5)	Theatre Laboratory
ENGL 465D2*	(4.5)	Theatre Laboratory
ENGL 466D1**	(3)	Directing for the Theatre
ENGL 466D2**	(3)	Directing for the Theatre
ENGL 469	(3)	Acting 3
ENGL 565	(3)	Drama Workshop

*, ** Note: Spanned credits. The amount over 3 credits can be attributed to Departmental Offerings credits.

Departmental Offerings

9 additional credits of English (ENGL) courses, preferably courses at the 300 level or above.

4.10.14.9 Bachelor of Arts (B.A.) - Joint Honours Component English - Literature (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs." Applications to do a Joint Honours program in English and another subject in the Faculty of Arts should be submitted once a minimum of 9 credits, and no more than 18 credits, have been completed in English. There are normally two possible application dates for Joint Honours in English: either by the end of January (by which time first-term courses are completed and the grades are available), or at the same time as the Honours application date, typically in mid-April. (Only students who will have completed more than 18 credits in English by the end of January may apply in the Fall.) The minimum CGPA for application to the Joint Honours program is 3.30. Students with a CGPA lower than 3.3 and at or above 3.0 (but with the requisite 3.5 program GPA) may consult the Director of the Honours program for special permission to apply. Students with a program GPA lower than 3.5 and at or above 3.3 (but with the requisite CGPA of 3.3) may also consult the Director of the Honours program for special permission to apply. The application form is 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
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/english>). In addition to the Advanced Study requirement, 3 of the remaining 18 Complementary Courses credits must be completed at the 500 level. A maximum of 9 of the 24 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.)

Areas of English Literature

3 credits from one 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
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1

Old English

ENGL 342	(3)	Introduction to Old English
ENGL 452	(3)	Studies in Old English
ENGL 553	(3)	Old English Literature

Medieval

ENGL 337	(3)	Theme or Genre in Medieval Literature
ENGL 349	(3)	English Literature and Folklore 1
ENGL 356	(3)	Middle English
ENGL 357	(3)	Chaucer - Canterbury Tales
ENGL 358	(3)	Chaucer - Troilus and Criseyde
ENGL 456	(3)	Middle English
ENGL 500	(3)	Middle English

Renaissance

ENGL 300	(3)	The Seventeenth Century
ENGL 305	(3)	Renaissance English Literature 1
ENGL 307	(3)	Renaissance English Literature 2
ENGL 308	(3)	English Renaissance Drama 1
ENGL 309	(3)	English Renaissance Drama 2
ENGL 315	(3)	Shakespeare
ENGL 316	(3)	Milton
ENGL 349	(3)	English Literature and Folklore 1
ENGL 400	(3)	Earlier English Renaissance
ENGL 401	(3)	Studies in the 17th Century
ENGL 416	(3)	Studies in Shakespeare
ENGL 501	(3)	16th Century
ENGL 516	(3)	Shakespeare

Areas of English Literature

3 credits from one of the following areas: Restoration, 18th Century, Romantic, Victorian, 19th Century American.

Restoration

ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 310	(3)	Restoration and 18th Century Drama

18th Century

ENGL 301	(3)	Earlier 18th Century Novel
ENGL 302	(3)	Restoration and 18th C. English Literature 1
ENGL 303	(3)	Restoration and 18th C. English Literature 2
ENGL 304	(3)	Later Eighteenth Century Novel
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 403	(3)	Studies in the 18th Century
ENGL 503	(3)	18th Century

Romantic

ENGL 331	(3)	Literature Romantic Period 1
ENGL 332	(3)	Literature Romantic Period 2

Victorian

ENGL 329	(3)	English Novel: 19th Century 1
ENGL 330	(3)	English Novel: 19th Century 2
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 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 Bieler School of Environment offers programs open to Bachelor of Arts and Science students; please refer to [Bieler School of Environment > Undergraduate](#) for more information.

- Minor: [section 7.7.1: Minor in Environment](#)
- 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 3.10.8: Le Département des littératures de langue française, de traduction et de création](#) (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 langue française et aux différentes pratiques littéraires que sont la création, la traduction et l'édition. Il vise également à fournir à chaque étudiant(e) 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, moyennant l'ajout des cours requis pour répondre aux exigences de ce dernier programme. L'admission au programme nécessite une bonne connaissance du français lu, écrit et parlé.

COURS COMPLÉMENTAIRES (18 crédits)

3 crédits choisis parmi les cours d'introduction suivants :

FREN 222	(3)	Introduction aux études littéraires
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

15 crédits répartis de la façon suivante, selon l'orientation choisie (« A : Études littéraires » ou « B : Pratiques littéraires ») :

ORIENTATION A : « Études littéraires »

12 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800) ;

3 crédits choisis parmi les cours du bloc « Pratiques ».

ORIENTATION B : « Pratiques littéraires »

12 crédits choisis parmi les cours d'au moins deux séries différentes du bloc « Pratiques » ;

3 crédits choisis parmi les cours du bloc « Études ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1

FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) Série « 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

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)
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)	Introduction to Language Technologies
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

4.10.16.2 Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)

Le programme « Concentration mineure en Langue et littérature françaises (option « Langue française ») » est offert en collaboration avec le Centre d'enseignement du français. Il s'adresse à des étudiant(e)s de français langue seconde qui ont déjà une bonne connaissance de la langue. Il vise l'acquisition d'un niveau de français équivalent au niveau B2 (« utilisateur expérimenté ») du Cadre européen de référence pour les langues dans les sphères universitaire, professionnelle, publique et personnelle.

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.) 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)	Introduction to Language Technologies
FREN 239 *3	(3)	Stylistique comparée

FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347 *8	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 *4	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 494 *6	(3)	Traduction spécialisée

*3 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*6 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*8 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

3 à 6 crédits choisis parmi les cours suivants :

CCTR 331 *9	(3)	Current Trends in Translation Studies
FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *9	(3)	Théories de la traduction
FREN 425 *9	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

*9 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

NOTE: les chiffres 1 et 2 n'indiquent pas des séquences; ils servent à désigner des cours à contenu variable.

4.10.16.4 Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)

Ce programme offre une formation générale qui inclut l'histoire des littératures d'expression française, l'analyse critique des œuvres et la théorie littéraire. Cette formation vise également à 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 : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1

FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

(b) Série « Langue française »

FREN 231	(3)	Linguistique française
FREN 245	(3)	Grammaire normative
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

(c) 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 *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)	Introduction to Language Technologies
FREN 239 *2	(3)	Stylistique comparée
FREN 244 *3	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *6	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *4	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *8	(3)	Traduction et révision
FREN 441 *5	(3)	Traduction français-anglais
FREN 443 *6	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *7	(3)	Traduction spécialisée

*2 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*3 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*4 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*5 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*6 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*8 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

4.10.16.5 Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)

Le programme de « Concentration majeure en Langue et littérature françaises (option « Traduction ») » offre une formation générale en traduction de l'anglais vers le français. D'abord pratique, cette formation fournit également des assises théoriques sur le fonctionnement de la langue ou les enjeux de la traduction. Elle favorise l'amélioration de la compréhension de l'anglais et des compétences rédactionnelles en français, compétences que l'étude de la littérature de langue française viendra renforcer. L'admission au programme nécessite une bonne connaissance du français et de l'anglais lus et écrits, de même que du français parlé ; cette connaissance est vérifiée à l'aide d'un test de classement, à la suite duquel l'étudiant(e) peut se voir imposer de suivre le cours FREN 239 (« Stylistique comparée ») ou son équivalent, le CCTR 310 (« Comparative Stylistics 2 ») à la session d'automne de U1.

COURS OBLIGATOIRES (12 crédits)

CCTR 225 *1	(3)	Introduction to Translation (English to French)
CCTR 325 *2	(3)	Semi-Specialized Translation (English to French)
FREN 222	(3)	Introduction aux études littéraires
FREN 244 *1	(3)	Traduction générale
FREN 245	(3)	Grammaire normative
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 (24 crédits)

De 12 à 15 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)	Introduction to Language Technologies
FREN 239 *3	(3)	Stylistique comparée
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 347 *8	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *7	(3)	Traduction et révision
FREN 441 *4	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 494 *6	(3)	Traduction spécialisée

*3 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*4 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*6 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*7 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*8 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

De 3 à 6 crédits choisis parmi les cours suivants:

CCTR 331 *9	(3)	Current Trends in Translation Studies
FREN 231	(3)	Linguistique française
FREN 313	(3)	Langage et littérature 1
FREN 336	(3)	Histoire de la langue française
FREN 356	(3)	Grammaire du texte littéraire
FREN 394 *9	(3)	Théories de la traduction
FREN 425 *9	(3)	Traduction et culture
FREN 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2
FREN 492	(3)	Histoire de la traduction

*9 L'étudiant(e) peut suivre FREN 394 et/ou le FREN 425 ou le CCTR 331.

6 à 9 crédits choisis parmi les cours du bloc « Études » (au moins 3 de ces crédits doivent porter sur la littérature avant 1800 et 3 autres sur la littérature depuis 1800).

0 à 3 crédits choisis parmi les séries « Création » et « Édition » du bloc « Pratiques ».

I) BLOC: ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2

FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3
FREN 499	(3)	Questions de littérature 4

II) BLOC: PRATIQUES

(a) Série « Création »

FREN 240	(3)	Atelier d'écriture poétique
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 340	(3)	Atelier d'écriture narrative
FREN 440	(3)	Atelier d'écriture dramatique
FREN 460	(3)	Atelier d'écriture

(b) Série: « Édition »

FREN 376	(3)	Correction et révision
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

*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 434	(3)	Sociolinguistique du français
FREN 491	(3)	Langage et littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

I) BLOC : ÉTUDES

Liste de cours

(a) Série « Œuvres et courants »

FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise
FREN 253	(3)	Oeuvres culture occidentale
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
FREN 329	(3)	Civilisation québécoise
FREN 355	(3)	Littérature du 20e siècle 1
FREN 360	(3)	La littérature du 19e siècle 1
FREN 362	(3)	La littérature du 17e siècle 1
FREN 364	(3)	La littérature du 18e siècle 1
FREN 366	(3)	Littérature de la Renaissance 1
FREN 372	(3)	Littérature québécoise 1
FREN 380	(3)	Littératures francophones 1
FREN 381	(3)	Littératures francophones 2
FREN 382	(3)	Littérature québécoise 2
FREN 453	(3)	Littérature du 20e siècle 2
FREN 455	(3)	La littérature médiévale 1
FREN 456	(3)	La littérature médiévale 2
FREN 457	(3)	La littérature de la Renaissance 2
FREN 458	(3)	La littérature du 17e siècle 2
FREN 459	(3)	La littérature du 18e siècle 2
FREN 461	(3)	Enjeux littéraires et culturels 1
FREN 472	(3)	Enjeux littéraires et culturels 2
FREN 480	(3)	Littérature québécoise contemporaine
FREN 482	(3)	La littérature du 19e siècle 2
FREN 485	(3)	Littérature française contemporaine
FREN 498	(3)	Questions de littérature 3

FREN 499 (3) Questions de littérature 4

(b) Série « Langue française »

FREN 231 (3) Linguistique française
 FREN 245 (3) Grammaire normative
 FREN 313 (3) Langage et littérature 1
 FREN 336 (3) Histoire de la langue française
 FREN 356 (3) Grammaire du texte littéraire
 FREN 434 (3) Sociolinguistique du français
 FREN 491 (3) Langage et littérature 2

(c) Série « Théorie »

CCTR 331 *6 (3) Current Trends in Translation Studies
 FREN 334 (3) L'oeuvre au miroir de la critique
 FREN 335 (3) Théories littéraires 1
 FREN 337 (3) Textes, imaginaires, sociétés
 FREN 375 (3) Théories littéraires 2
 FREN 391 (3) Savoirs de la littérature 1
 FREN 394 *6 (3) Théories de la traduction
 FREN 420 (3) Enjeux de l'écriture littéraire
 FREN 422 (3) Le métier d'écrivain-e
 FREN 425 *6 (3) Traduction et culture
 FREN 496 (3) Savoirs de la littérature 2

*6 L'étudiant(e) peut suivre le FREN 394 et/ou le FREN 425 ou le CCTR 331.

II) BLOC : PRATIQUES

(a) Série « Création »

FREN 240 (3) Atelier d'écriture poétique
 FREN 320 (3) Traduire, écrire, expérimenter.
 FREN 340 (3) Atelier d'écriture narrative
 FREN 440 (3) Atelier d'écriture dramatique
 FREN 460 (3) Atelier d'écriture

(b) Série « Édition »

FREN 376 (3) Correction et révision
 FREN 377 (3) Pratiques de l'édition littéraire
 FREN 476 (3) Le livre

(c) Série « Traduction »

CCTR 219 *7 (3) Fundamentals of Comparative Stylistics and Writing (French)
 CCTR 225 *1 (3) Introduction to Translation (English to French)

CCTR 325 *2	(3)	Semi-Specialized Translation (English to French)
CCTR 326 *3	(3)	Semi-Specialized Translation (French to English)
CCTR 441 *5	(3)	Traduction Littéraire-Français
CCTR 453 *8	(1.5)	Technical Translation: Information Technology (English to French)
CCTR 455 *8	(1.5)	Technical Translation: Transportation (English to French)
CCTR 457 *8	(1.5)	Financial Translation: Investments (English to French)
CCTR 459 *8	(1.5)	Transcreation (English to French)
CCTR 507 *4	(3)	Editing and Revising (French)
CCTR 535 *9	(3)	Introduction to Language Technologies
FREN 239 *7	(3)	Stylistique comparée
FREN 244 *1	(3)	Traduction générale
FREN 320	(3)	Traduire, écrire, expérimenter.
FREN 324 *5	(3)	Traduction littéraire 1
FREN 341	(3)	Traduction et recherche 1
FREN 346 *2	(3)	Traduction avancée
FREN 347 *9	(3)	Terminologie générale
FREN 349	(3)	Traduction et recherche 2
FREN 431 *4	(3)	Traduction et révision
FREN 441 *3	(3)	Traduction français-anglais
FREN 443 *5	(3)	Traduction littéraire 2
FREN 492	(3)	Histoire de la traduction
FREN 494 *8	(3)	Traduction spécialisée

*1 L'étudiant(e) peut suivre le FREN 244 ou le CCTR 225.

*2 L'étudiant(e) peut suivre le FREN 346 ou le CCTR 325.

*3 L'étudiant(e) peut suivre le FREN 441 ou le CCTR 326.

*4 L'étudiant(e) peut suivre le FREN 431 ou le CCTR 507.

*5 L'étudiant(e) peut suivre le FREN 324 et/ou le FREN 443 ou le CCTR 441.

*7 L'étudiant(e) peut suivre le FREN 239 ou le CCTR 219.

*8 L'étudiant(e) peut suivre le FREN 494 ou deux demi-cours parmi les suivants : CCTR 453, CCTR 455, CCTR 457 et CCTR 459.

*9 L'étudiant(e) peut suivre le FREN 347 ou le CCTR 535.

NOTE : Les chiffres 1 et 2 n'indiquent pas des séquences ; ils servent à désigner des cours à contenu variable.

4.10.17 Gender, Sexuality, and Feminist Studies

Institute for Gender, Sexuality, and Feminist Studies, its programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.17: Gender, Sexuality, and Feminist Studies](#).

4.10.17.1 Bachelor of Arts (B.A.) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies (18 credits)

The Minor Concentration in Gender, Sexuality, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships.

Complementary Courses (18 credits)

3 credits from the following:

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies

3 credits Gender, Sexuality Feminist, and Social Justice Studies (GSFS) from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 3 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

12 credits from the following:

Minimum of 6 credits must be at the 300 level or higher. Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 3 transfer credits may be accepted from approved exchange programs subject to University approval.

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice

COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema

HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
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, Feminist, & Social Justice Studies (GSFS) is an interdisciplinary program that centrally engages contemporary and historical issues centered on gender, sexuality, feminism, and social justice. The program provides students with opportunities to explore the meaning and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Major Concentration consists of required GSFS courses that allow for an immersion into this area of study, and complementary courses from a range of departments, disciplines, and faculties. Students must see an adviser in Gender, Sexuality, Feminist, and Social Justice Studies at a minimum upon declaring the GSFS Major Concentration and prior to selecting courses for the final year of study.

Students are advised to take GSFS 200 and 250 in their first year in the program, GSFS 300 in their second year of the program, and GSFS 400 in their final year of the program.

Students must see an adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Required Courses (12 credits)

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 400	(3)	Capstone: Engaging Fields of GSFS

Complementary Courses (24 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

15 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2

GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 9 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

15 credits from the following:

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2
ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction

ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War

HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
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.

4.10.17.3 Bachelor of Arts (B.A.) - Jt Honours Component Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)

The Joint Honours program offers a significant degree of analysis and depth of study into contemporary and historical critical issues centered on gender, sexuality, feminism, and social justice beyond the Major through required and complementary course work, intensive research, and seminars. The program enables students to explore the meanings and intersections of such categories as gender, race, class, sexual identification, age, ability, citizenship, and national identity, for example, and to examine how such categories might inform and reproduce power relationships. The Joint Honours program culminates in the completion of an Honours thesis, supervised by a faculty member whose approval is sought the year prior. The Colloquium requires supplemental reading and writing assignments, training in research and thesis writing methods, presentation to the group of theses in progress, and response to the work of others. Joint Honours students must maintain a program GPA of 3.30 and a CGPA of 3.00.

Students are advised to take GSFS 200 and GSFS 250 in their first year in the program, and GSFS 300 in their second year of the program. Students must take GSFS 495D1/D2 and GSFS 497D1/D2 in their last full year of the program.

Students must see and adviser in Women's Studies at a minimum upon registering in GSFS and prior to selecting courses for the final year of study.

Required Courses (15 credits)

GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 495D1	(1.5)	Honours/Joint Honours Colloquium
GSFS 495D2	(1.5)	Honours/Joint Honours Colloquium
GSFS 497D1	(1.5)	Joint Honours Thesis
GSFS 497D2	(1.5)	Joint Honours Thesis

Complementary Courses (21 credits)

9 credits selected from the GSFS Course List, 3 credits of which must be at the 400 or 500 level.

12 credits selected from the Complementary Course List. Three credits minimum must be at the 400 or 500 level and 9 credits maximum may be at the 200 level.

Complementary courses must centrally engage with at least two of the following themes: gender, sexuality, feminism, and social justice. Courses are offered by a range of faculties and disciplines.

Maximum of 12 transfer credits may be accepted by approved exchange programs, subject to University approval.

Gender, Sexuality, Feminist, and Social Justice Studies (GSFS)

9 credits from the following:

GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability
GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions

Any credits taken above the 9 credits of complementary GSFS courses may count as credit in the following Complementary Course List.

12 credits from the following:

Additions may be made during a particular calendar year depending on the central focus of the courses. For final updates, see: <http://www.mcgill.ca/igsf>.

ANTH 227	(3)	Medical Anthropology
ANTH 327	(3)	Anthropology of South Asia
ANTH 381*	(3)	Special Topic 2

ANTH 407	(3)	Anthropology of the Body
ANTH 413	(3)	Gender in Archaeology
ANTH 480*	(3)	Special Topic 5
ANTH 555*	(3)	Advanced Topics in Ethnology
ARCH 533*	(3)	New Approaches to Architectural History
ARTH 205*	(3)	Introduction to Modern Art
ARTH 353*	(3)	Selected Topics in Art History 1
ARTH 354*	(3)	Selected Topics Art History 2
ARTH 421*	(3)	Selected Topics in Art and Architecture 2
ARTH 440*	(3)	The Body and Visual Culture
CANS 405*	(3)	Canadian Studies Seminar 5
CLAS 308	(3)	Gender in the Ancient World
COMS 310	(3)	Media and Feminist Studies
COMS 400*	(3)	Critical Theory Seminar
COMS 490*	(3)	Special Topics in History and Theory of Media
COMS 492	(3)	Power, Difference and Justice
COMS 541*	(3)	Cultural Industries
EAST 313*	(3)	Current Topics: Korean Studies 1
EAST 350	(3)	Gender and Sexuality in Chinese Literature
EAST 351	(3)	Women Writers of China
EAST 370	(3)	History of Sexuality in Japan
EAST 390	(3)	The Chinese Family in History
EAST 453*	(3)	Topics: Chinese Literature
ENGL 275	(3)	Introduction to Cultural Studies
ENGL 320	(3)	Postcolonial Literature
ENGL 371*	(3)	Theatre History: 19th to 21st Centuries
ENGL 388*	(3)	Studies in Popular Culture
ENGL 413*	(3)	Special Topics in Canadian Drama and Theatre
ENGL 418*	(3)	A Major Modernist Writer
ENGL 440*	(3)	First Nations and Inuit Literature and Media
ENGL 443	(3)	Contemporary Women's Fiction
ENGL 444	(3)	Studies: Women's Writing and Feminist Theory
ENGL 489*	(3)	Culture and Critical Theory 1
ENGL 516*	(3)	Shakespeare
GEOG 331*	(3)	Urban Social Geography
GEOG 507*	(3)	Advanced Social Geography
GERM 364	(3)	Gender and Society in German Literature and Culture
GSFS 200	(3)	Feminist and Social Justice Studies
GSFS 250	(3)	Sexual and Gender Diversity Studies
GSFS 300	(3)	Research Inquiry in GSFS
GSFS 301	(3)	Current Topics 1
GSFS 302	(3)	Current Topics 2
GSFS 303	(3)	Gender and Disability

GSFS 304	(3)	Postcolonial Feminist Theories
GSFS 305	(3)	Critical Race and Social Justice Theories
GSFS 306	(3)	Queer Theory
GSFS 307	(3)	Indigenous Feminisms
GSFS 308	(3)	Sex and Gender Minority Cultures
GSFS 400	(3)	Capstone: Engaging Fields of GSFS
GSFS 401	(3)	Special Topics 1
GSFS 402	(3)	Special Topics 2
GSFS 403	(3)	Feminisms and the Law
GSFS 404	(3)	Politics of Identity
GSFS 405	(3)	Social Justice and Activism
GSFS 406	(3)	Trans*Feminisms
GSFS 407	(3)	Sexuality and Gender: New Directions
GSFS 450	(3)	Independent Reading and Research
GSFS 499	(3)	GSFS Internship
HISP 340*	(3)	Latin American Cinema
HISP 358	(3)	Gender and Textualities
HIST 201*	(3)	Modern African History
HIST 323	(3)	History and Sexuality 1
HIST 343	(3)	Women in Post-Confederation Canada
HIST 344	(3)	The Chinese Family in History
HIST 347	(3)	History and Sexuality 2
HIST 354	(3)	Women in Europe 1700-2000
HIST 380	(3)	The Medieval Mediterranean
HIST 382*	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 412	(3)	Women and Gender in Modern Britain
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 433	(3)	British Queer History
HIST 525	(3)	Women, Work and Family in Global History
HIST 526	(3)	Women and War
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
INDG 401*	(3)	Interdisciplinary Seminar in Indigenous Studies
ISLA 310	(3)	Women in Islam
ISLA 585	(3)	Arab Women's Literature
ITAL 375*	(3)	Cinema and Society in Modern Italy
ITAL 383	(3)	Women's Writing since 1880
ITAL 477*	(3)	Italian Cinema and Video
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 313*	(3)	Topics in Biblical Studies 1
RELG 336*	(3)	Contemporary Theological Issues
RELG 338	(3)	Women and the Christian Tradition
RELG 372	(3)	Hindu Goddesses
RELG 399*	(3)	Christian Spirituality
SOCI 247	(3)	Family and Modern Society
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 370	(3)	Sociology: Gender and Development
SOCI 386	(3)	Contemporary Social Movements
SOCI 390	(3)	Gender and Health
SOCI 489	(3)	Gender, Deviance and Social Control
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 530	(3)	Sex and Gender
SOCI 535	(3)	Sociology of the Family

Note: Courses marked with an asterisk (*) are acceptable ONLY when the course centrally engages with at least two of the following themes: gender, sexuality, feminism, and social justice.

4.10.18 Geography (GEOG)

The Department of Geography information, programs, and courses are described in:

- [Faculty of Arts](#) > Undergraduate > Browse Academic Units & Programs > [section 3.10.18: Geography \(GEOG\)](#)
- [Faculty of Science](#) > Undergraduate > Browse Academic Units & Programs > [section 11.13.17: Geography \(GEOG\)](#)

Geography also administers the B.A. & Sc. Interfaculty Programs in Sustainability, Science and Society in partnership with the Bieler School of Environment. These programs are described in Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > [section 4.10.35: Sustainability, Science and Society](#).



Note: Students may take a Geography program either in Arts or in Science, but not both.

The following are considered **Arts** programs in the B.A. & Sc.:

Minor Concentration GIS & Remote Sensing
 Minor Concentration Geography
 Minor Concentration Geography (Urban Studies)
 Minor Concentration Health Geography
 Major Concentration Geography
 Major Concentration Geography (Urban Studies)
 Joint Honours Component Geography

The following are considered **Science** programs in the B.A. & Sc.:

Minor GIS & Remote Sensing

Minor Geography
 Major Concentration Geography (Physical Geography)

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 Studies).

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)

This concentration exposes students to various approaches to urban studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography.

This Minor concentration may be expanded into the Major Concentration Geography (Urban Studies).

Complementary Courses (18 credits)

18 credits selected as follows:

Group A

9-12 credits selected from:

GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World
GEOG 303	(3)	Health Geography
GEOG 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 417	(3)	Urban Geography
GEOG 420	(3)	Memory, Place, and Power

Group B

6-9 credits selected from:

Architecture

Although Architecture courses have prerequisites, they are waived for Urban Studies students, but the course may not be taken before U3.

ARCH 515	(3)	Sustainable Design
ARCH 528	(3)	History of Housing

Art History & Communication Studies

COMS 425	(3)	Urban Culture and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

Political Science

POLI 318	(3)	Comparative Local Government
POLI 321	(3)	Issues: Canadian Public Policy
POLI 337	(3)	Canadian Public Administration

Sociology

SOCI 222	(3)	Urban Sociology
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 333	(3)	Social Stratification
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 388	(3)	Crime

Urban Planning

URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 506	(3)	Environmental Policy and Planning
URBP 551	(3)	Urban Design and Planning
URBP 556	(3)	Urban Economy: A Spatial Perspective

4.10.18.3 Bachelor of Arts (B.A.) - Minor Concentration GIS & Remote Sensing (18 credits)

The Minor Concentration in GIS & Remote Sensing program provides B.A. students with the fundamentals of geospatial tools and technologies.

Required Courses (6 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 314	(3)	Geospatial Analysis

Complementary Courses (12 credits)

3 credits selected from:

COMP 202	(3)	Foundations of Programming
GEOG 333	(3)	Introduction to Programming for Spatial Sciences

3 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 414*	(3)	Advanced Geospatial Analysis

6 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
ESYS 300	(3)	Investigating the Earth System
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414*	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

* may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

4.10.18.4 Bachelor of Arts (B.A.) - Minor Concentration Health Geography (18 credits)

There is increasing consensus around the idea that health is not just an expression of individual characteristics but an interaction between the characteristics of the individual and the environments, both physical and social, to which one is exposed over a lifetime of daily living and working. Health outcomes vary dramatically by physical and social characteristics of places both within and between countries and these provide a wedge for our understanding of the factors that might be modified to improve the health of large groups of people. The B.A.; Minor Concentration in Health Geography introduces students to both local and global health issues and provides a skill set in spatial and statistical analyses of diverse health outcomes in populations.

Required Courses (12 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change

Complementary Courses (6 credits)

3 credits from:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 203	(3)	Environmental Systems
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the Modern World

3 credits from:

GEOG 503	(3)	Advanced Topics in Health Geography
PPHS 501*	(3)	Population Health and Epidemiology
PPHS 511*	(3)	Fundamentals of Global Health
PPHS 525*+	(3)	Health Care Systems in Comparative Perspective
PPHS 529*	(3)	Global Environmental Health and Burden of Disease
SOCI 309	(3)	Health and Illness
SOCI 365*	(3)	Health and Development
SOCI 525*+	(3)	Health Care Systems in Comparative Perspective

+ Students can take PPHS 525 OR SOCI 525

* These courses may have additional prerequisites or restrictions.

4.10.18.5 Bachelor of Science (B.Sc.) - Minor Geography (18 credits)

The Minor Geography is expandable into the B.Sc. Major Geography.

The Minor Geography is designed to provide students in the Faculty of Science with an overview of basic elements of geography at the introductory and advanced level.

This Minor permits no overlap with any other programs.

Required Courses (6 credits)

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Complementary Courses (12 credits)

3 credits of Geography courses at the 200 level below.

GEOG 201	(3)	Introductory Geo-Information Science
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

9 credits from any Geography course at the 300 level or above.

4.10.18.6 Bachelor of Science (B.Sc.) - Minor GIS & Remote Sensing (18 credits)

The Minor GIS & Remote Sensing program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Course (6 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 314	(3)	Geospatial Analysis

Complementary Courses (12 credits)

3 credits selected from:

COMP 202	(3)	Foundations of Programming
GEOG 333	(3)	Introduction to Programming for Spatial Sciences

3 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 414*	(3)	Advanced Geospatial Analysis

6 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 384*	(3)	Principles of Geospatial Web
GEOG 414*	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

* 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 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 414	(3)	Advanced Geospatial Analysis

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 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

4.10.18.8 Bachelor of Arts (B.A.) - Major Concentration Geography (37 credits)

This program is designed to cover the main elements of human geography.

Required Courses (7 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 210	(3)	Global Places and Peoples
GEOG 290	(1)	Local Geographical Excursion

Complementary Courses (30 credits)

30 credits selected as follows:

Physical Geography

3 credits from:

GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface

Statistics

3 credits from:

Note: Credit given for statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

Field Courses

3 credits from:

Note: Field course offerings are determined each year in February.

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 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research

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.

4.10.18.9 Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Studies) (36 credits)

This major concentration exposes students to various approaches to Urban Studies. Urban Studies is an interdisciplinary program that introduces students in the Faculty of Arts to the study of urban dynamics and the challenges facing contemporary cities around the world. Urban Studies prepares students for a variety of urban-related careers as well as for graduate study in disciplines and professional programs such as urban planning, architecture, and urban geography. Students should observe the levels indicated by course numbers: 200-level are first year (U1); 300-level, second year (U2); 400- or 500-level, third year (U3).

For students majoring in Urban Studies, the total number of credits permitted outside Arts and Science is 30 credits. Faculty of Arts regulations about "Courses Outside the Faculties of Arts and of Science" may be found with the Arts guidelines for "Course Requirements".

Required Courses (9 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 217	(3)	Cities in the Modern World
GEOG 351	(3)	Quantitative Methods

Complementary Courses (27 credits)

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 311	(3)	Economic Geography
GEOG 314	(3)	Geospatial Analysis
GEOG 315	(3)	Urban Transportation Geography
GEOG 316	(3)	Political Geography
GEOG 325	(3)	New Master-Planned Cities
GEOG 331	(3)	Urban Social Geography
GEOG 414	(3)	Advanced Geospatial Analysis
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 and Everyday Life
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Civil Engineering

CIVE 540	(3)	Urban Transportation Planning
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History

HIST 353	(3)	History of Montreal
HIST 397	(3)	Canada: Ethnicity, Migration

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 222 (3) Urban Sociology

SOCI 230 (3) Sociology of Ethnic Relations

SOCI 333 (3) Social Stratification

SOCI 366 (3) Neighborhoods and Inequality

SOCI 388 (3) Crime

Urban Planning

URBP 201 (3) Planning the 21st Century City

URBP 501 (2) Principles and Practice 1

URBP 504 (3) Planning for Active Transportation

URBP 505 (3) Geographic Information Systems

URBP 506 (3) Environmental Policy and Planning

URBP 530 (3) Urban Infrastructure and Services in International Context

URBP 536 (2) Current Issues in Transportation 1

URBP 537 (2) Current Issues in Transportation 2

URBP 551 (3) Urban Design and Planning

URBP 556 (3) Urban Economy: A Spatial Perspective

4.10.18.10 Bachelor of Arts (B.A.) - Joint Honours Component Geography (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

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.

Required Courses (9 credits)

GEOG 201 (3) Introductory Geo-Information Science

GEOG 351 (3) Quantitative Methods

GEOG 381 (3) Geographic Thought and Practice

Complementary Courses (27 credits)

27 credits selected as follows:

Introductory

12 credits of introductory courses 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

Research

3-6 credits of research courses. Where both departments require an Honours Thesis, the student has the option of submitting the thesis to either department. If the thesis is submitted to the other department, then the student must register for GEOG 492D1/GEOG 492D2. In some cases, it is required that the thesis be jointly supervised by faculty of both departments.

GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research
GEOG 492D1	(1.5)	Joint Honours Research
GEOG 492D2	(1.5)	Joint Honours Research

Remaining Geography

6-9 credits from a coherent set of Geography (GEOG) courses approved by the Program Adviser. Including a field course is desirable.

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
ISLA 315	(3)	Ottoman State and Society to 1839
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 allowing students greater flexibility to take a variety of courses in translation.

Required Courses (3 credits)

CLAS 201 (3) Greece and Rome

Complementary Courses (33 credits)

33 credits from one of the following two streams.

Classical Languages Stream

33 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Classical Studies Stream

6 credits in the following:

CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society

27 credits of classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits intermediate Ancient Greek and/or Latin.

CLAS 310	(3)	Intermediate Latin 1
CLAS 312	(3)	Intermediate Latin 2
CLAS 315	(3)	Intermediate Latin 2: Selections
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 322	(3)	Intermediate Ancient Greek 2
CLAS 326	(3)	Intermediate Ancient Greek 2: Selections

NOTE: Minimum 6 credits 400-level CLAS courses.

NOTE: Maximum 12 credits of complementary courses at the 200 level.

NOTE: 9 credits maximum of non-CLAS courses may be counted toward the program.

Note: For either stream students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

4.10.19.4 Bachelor of Arts (B.A.) - Major Concentration History (36 credits)

The Major Concentration History is a highly flexible program that emphasizes both breadth and depth, while introducing students to different historical theories and methodologies. Students select from a wide variety of courses on diverse cultures and societies around the world from antiquity to contemporary times, and also on thematic subjects such history and sexuality, imperialism and colonialism, histories of science, environmental history, and the history of thought and ideas. Students design their program to match their geographic, chronological, thematic or methodological interests.

Students wishing to complete a history program should consult a Program Adviser at the beginning of their first year, and 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 credit requirements for history programs.

Complementary Courses (36 credits)

Revision, July 2022. Start of revision.

36 credits of HIST or cognate courses (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 may not be used to satisfy Temporal Breadth requirements.

Level requirement:

-Maximum 15 credits of complementary courses at the 200-level.

-Minimum 6 credits of 400- or 500- level courses. Note: students may use at most 3 credits of HIST 498 or HIST 499 to fulfill this requirement.

Revision, July 2022. End of revision.

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 222	(3)	History of Pandemics
HIST 223	(3)	Indigenous Peoples and Empires
HIST 224	(3)	Introduction to the African Diaspora
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

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 303	(3)	Ancient Greek Religion
CLAS 304	(3)	Ancient Greek Democracy
CLAS 305	(3)	Roman Religion
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
ISLA 305	(3)	Topics in Islamic History
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511	(3)	Medieval Islam, 10th-12th Century
ISLA 516	(3)	Medieval Islam, 13th-15th Century
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 312	(3)	Modern Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 348	(3)	Modern Jewish Studies
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

JWST 371 (3) Jews and the City

4.10.19.5 Bachelor of Arts (B.A.) - Joint Honours Component Classics (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs". The Joint Honours Component Classics emphasizes the study of ancient Greek and Latin: proficiency in both languages is required, advanced coursework is required in at least one of the classical languages. The program is designed for students who wish to pursue graduate studies in classics or related disciplines (such as ancient History), or for graduate programs that require proficiency in ancient languages.

According to Faculty regulations, Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Required Courses (12 credits)

CLAS 201	(3)	Greece and Rome
CLAS 310	(3)	Intermediate Latin 1
CLAS 320	(3)	Intermediate Ancient Greek 1
CLAS 500	(3)	Classics Seminar

Complementary Courses (24 credits)

24 credits of Classics (CLAS) or related courses according to the following stipulations:

Minimum 6 credits advanced Ancient Greek and/or Latin.

CLAS 410	(3)	Advanced Latin: Authors
CLAS 412	(3)	Advanced Latin: Themes
CLAS 419	(3)	Advanced Latin: Post-Classical
CLAS 420	(3)	Advanced Ancient Greek: Authors
CLAS 422	(3)	Advanced Ancient Greek: Themes
CLAS 429	(3)	Medieval Greek

NOTE: Maximum 15 credits complementary courses at the 200 level.

NOTE: Maximum 9 credits of non-CLAS courses.

Note: students may count a maximum total of 12 credits of non-CLAS McGill courses and/or classics courses not taken at McGill (transfer credits) toward the program.

4.10.19.6 Bachelor of Arts (B.A.) - Joint Honours Component History (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. The Joint Honours Component History is a flexible program that emphasizes breadth, depth as well as historical methods and research.

Students wishing to complete the Joint Honours History Component should consult a Program Adviser at the beginning of their first year to map out a course of study, and fill out a departmental program advising/audit form. For more information, visit the program's website: <http://www.mcgill.ca/history/undergraduate>. Students must also fulfill program requirements in the second honours component and should consult an adviser in that program.

Important note: Advanced Placement or International Baccalaureate credits may not be included in the overall credit requirement for history programs.

Required Course (3 credits)

HIST 399	(3)	History and Historiography
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Complementary Courses (33 credits)

Revision, July 2022. Start of revision.

33 credits of HIST courses or cognate courses (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 honours seminar (500-level D1/D2 courses)
- Minimum 6 additional credits 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.

Revision, July 2022. End of revision.

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 222	(3)	History of Pandemics
HIST 223	(3)	Indigenous Peoples and Empires
HIST 224	(3)	Introduction to the African Diaspora
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

Courses Offered by Other Units

Revision, July 2022. Start of revision.

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 303	(3)	Ancient Greek Religion
CLAS 304	(3)	Ancient Greek Democracy
CLAS 305	(3)	Roman Religion
CLAS 345	(3)	Study Tour: Greece
CLAS 406	(3)	Greek and Roman Historiography
ISLA 305	(3)	Topics in Islamic History
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 511	(3)	Medieval Islam, 10th-12th Century
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
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 312	(3)	Modern Jewish History
JWST 334	(3)	Jews and Muslims: A Modern History
JWST 348	(3)	Modern Jewish Studies
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 371	(3)	Jews and the City

Revision, July 2022. End of revision.

4.10.19.7 Bachelor of Arts (B.A.) - Minor Concentration South Asian Studies (18 credits)

The B.A.: Minor Concentration in South Asian Studies offers breadth and depth on the history, literature, languages, politics, religions, cultures, and societies of South Asia. The minor concentration is divided into two streams, "Culture and Civilization" and "Languages." An interdisciplinary curriculum is collaboratively offered by the Department of Anthropology, English, History and Classical Studies, Political Science, and Sociology, the Institute of Islamic Studies, and the School of Religious Studies, and is complemented by language instruction in Persian, Sanskrit, Tibetan, and Urdu-Hindi.

Complementary Courses (18 credits)

18 credits from one of the following streams:

Stream 1: Culture and Civilization

Note: As course content may change according to the offering unit's yearly curriculum, all classes listed must be approved in consultation with the South Asian Studies adviser as relevant to the Minor Concentration. Students should refer to the eCalendar to confirm any prerequisites for the following courses.

Introductory Curriculum

6 credits from the following:

ANTH 327	(3)	Anthropology of South Asia
ANTH 361	(3)	Archaeology of South Asia
ENGL 297	(3)	Special Topics of Literary Study
HIST 209	(3)	Introduction to South Asian History
ISLA 330	(3)	Islamic Mysticism: Sufism
POLI 322	(3)	Political Change in South Asia
RELG 252	(3)	Hinduism and Buddhism
RELG 254	(3)	Introduction to Yoga Traditions

Intermediate and Advanced Curriculum

12 credits from the following:

ANTH 308	(3)	Political Anthropology 01
ANTH 510	(3)	Advanced Problems in Anthropology of Religion
ENGL 336	(3)	The 20th Century Novel 2
ENGL 404	(3)	Studies in 19th Century Literature 1
ENGL 408	(3)	The 20th Century
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 481	(3)	History of Bangladesh and Pakistan
ISLA 305	(3)	Topics in Islamic History
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 489	(3)	Special Topics 6
ISLA 555	(3)	Urdu Poetry
ISLA 581	(3)	Special Topics 1
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
RELG 344	(3)	Mahayana Buddhism
RELG 348	(3)	Classical Hinduism
RELG 350	(3)	Bhakti Hinduism
RELG 353	(3)	Gandhi: His Life and Thought
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 369	(3)	Tibetan Buddhism
RELG 372	(3)	Hindu Goddesses
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 388	(3)	Introduction to Sikhism
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	()	
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 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

SANSKRIT

RELG 257D1	(3)	Introductory Sanskrit
RELG 257D2	(3)	Introductory Sanskrit
RELG 357D1	(3)	Sanskrit 2
RELG 357D2	(3)	Sanskrit 2
RELG 457D1	(3)	Advanced Sanskrit
RELG 457D2	(3)	Advanced Sanskrit

TIBETAN

RELG 264	(3)	Introductory Tibetan 1
RELG 265	(3)	Introductory Tibetan 2
RELG 364	(3)	Intermediate Tibetan 1
RELG 365	(3)	Intermediate Tibetan 2
RELG 464	(3)	Advanced Tibetan 1
RELG 465	(3)	Advanced Tibetan 2

URDU-HINDI

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

Additions may be made during a particular calendar year depending on the central focus of the courses, subject to adviser approval.

Maximum of 6 relevant transfer credits may be accepted from approved exchange programs subject to adviser and University approval.

4.10.20 Interdisciplinary Life Sciences Minor

Interdisciplinary Life Sciences Minor, the program, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.19: Interdisciplinary Life Sciences](#).

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:

at least 6 credits must be at the 300 level or above.

Breadth requirement:

at least 9 credits must be taken from the Basic Life Sciences List,

at least 3 credits from the Health Social Sciences List,

at least 3 credits from the Empirical Science and Technology List.

The remaining 9 credits may be selected from any of the lists.

Basic Life Sciences

At least 9 credits from:

* Students take either ANAT 212 or BIOC 212, but not both.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
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ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
NSCI 201	(3)	Introduction to Neuroscience 2
NUTR 307	(3)	Metabolism and Human Nutrition
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 209	(3)	Mammalian Physiology 1

PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

Health Social Science

At least 3 credits from:

ANTH 204	(3)	Anthropology of Meaning
ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ECON 440	(3)	Health Economics
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
HIST 249	(3)	Health and the Healer in Western History
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 381	(3)	Colonial Africa
HIST 424	(3)	Gender, Sexuality and Medicine
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
PHIL 237	(3)	Contemporary Moral Issues
PHIL 343	(3)	Biomedical Ethics
POLI 417	(3)	Health Care in Canada
PSYC 215	(3)	Social Psychology
PSYC 304	(3)	Child Development
PSYC 333	(3)	Personality and Social Psychology
PSYC 412	(3)	Child Development: 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 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

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 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 441	(3)	Philosophy of Science 2
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy

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
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Biology (BIOL)

BIOL 210	(3)	Perspectives of Science
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History (HIST)

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 356	(3)	Medicine in the Medieval West
HIST 410	(3)	Topics in History of Science
HIST 452	(3)	Topics in Pre-Modern Medicine
HIST 457	(3)	Topics in Medical History
HIST 558	(3)	Modern Medicine: Seminar
HIST 559	(3)	Modern Medicine: Research
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

History and Philosophy of Science (HPSC)

HPSC 300	(3)	Independent Studies: History and Philosophy of Science
HPSC 500	(3)	Interdisciplinary Seminar: History & Philosophy of Science

Islamic Studies (ISLA)

ISLA 345 (3) Science and Civilization in Islam

Mathematics (MATH)

MATH 338 (3) History and Philosophy of Mathematics

Psychology (PSYC)

PSYC 403 (3) Modern Psychology in Historical Perspective

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 (0)
 ENGL 452 (3) Studies in Old English
 ENGL 456 (3) Middle English
 ENGL 500 (3) Middle English
 ENGL 553 (3) Old English Literature

* Note: When content relates to Medieval Studies.

History and Classical Studies

CLAS 419 (3) Advanced Latin: Post-Classical
 HIST 194 (3) FYS: Jewish Concepts of Others

HIST 319	(3)	The Scientific Revolution
HIST 323	(3)	History and Sexuality 1
HIST 356	(3)	Medicine in the Medieval West
HIST 358	(3)	China's Middle Empires
HIST 380	(3)	The Medieval Mediterranean
HIST 401	(3)	Topics: Medieval Culture and Society
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

Islamic Studies

ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 420	(3)	Indo-Islamic Civilization: Medieval
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 516	(3)	Medieval Islam, 13th-15th Century

Jewish Studies

JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 337	(3)	Jewish Philosophy and Thought 1

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	()	

Religious Studies

RELG 322	(3)	Church and Empire to 1300
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 credits)

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 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 doivent être du niveau 300 ou supérieur.

Le choix de ces cours se fera en consultation avec le directeur du programme et variera selon le domaine de spécialisation de chaque étudiant(e).

Of these 9 credits, 6 credits must be core courses, or courses approved by the Program Director.

3 credits must be taught in the French language and can be chosen from French as a Second Language course offerings.

At least 6 of the 9 complementary credits must be at the 300 level or above.

The selection of courses will be made in consultation with the Program Director and will vary depending on the major concentration or honours program of each student.

Core Courses / Cours inscrits au tronc commun

FREN 252	(3)	Littérature québécoise
POLI 226	(3)	La vie politique québécoise
POLI 336	(3)	Le Québec et le Canada
QCST 336	(6)	Quebec Studies Summer Seminar

Anthropology / Anthropologie

ANTH 436	(3)	North American Native Peoples
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Art History and Communication Studies

COMS 510	(3)	Canadian Broadcasting Policy
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Canadian Studies / Études sur le Canada

CANS 200	(3)	Understanding Canada
CANS 301	(3)	Topics in Canadian Studies 2

CANS 306	(3)	Topics in Indigenous Public Affairs
CANS 405	(3)	Canadian Studies Seminar 5

English / Anglais

ENGL 313	(3)	Canadian Drama and Theatre
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Environment

ENVR 380	(3)	Topics in Environment 1
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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

SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 475	(3)	Canadian Ethnic Studies Seminar

4.10.21.4 Bachelor of Arts (B.A.) - Minor Concentration World Cinemas (18 credits)

The Minor Concentration World Cinemas instructs students in film aesthetics, history, and theory by acquainting them with cinematic practices from different national and international traditions. This interdisciplinary program draws on the already existing teaching and research activities in several departments within the Faculty of Arts and will serve as an institutional context for future teaching and research endeavors in film studies.

Required Courses (6 credits)

* Take either EAST 279 or LLCU 279.

EAST 279*	(3)	Introduction to Film History
ENGL 277	(3)	Introduction to Film Studies
LLCU 279*	(3)	Introduction to Film History

Complementary Courses (12 credits)

12 credits selected from the course list below with the following specifications:

a minimum of 6 credits in non-U.S. cinemas;

a maximum of 6 credits from any one department.

No more than 6 credits may be taken from the same discipline as the student's other major or minor concentrations.

CANS 300	(3)	Topics in Canadian Studies 1
EAST 353	(3)	Approaches to Chinese Cinema
EAST 361	(3)	Animation and New Media
EAST 362	(3)	Japanese Cinema
EAST 368	(3)	Asian Genre Cinemas
EAST 369	(3)	Gender and Sexuality in Asian Media
EAST 454	(3)	Topics: Chinese Cinema
EAST 467	(3)	Topics: Japanese Cinema
EAST 564	(3)	Structures of Modernity: Asia
ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 350	(3)	Studies in the History of Film 1
ENGL 351	(3)	Studies in the History of Film 2
ENGL 354	(3)	Sexuality and Representation
ENGL 363	(3)	Studies in the History of Film 3
ENGL 366	(3)	Film Genre
ENGL 374	(3)	Film Movement or Period
ENGL 379	(3)	Film Theory
ENGL 381	(3)	A Film-Maker 1
ENGL 382	(3)	International Cinema 1
ENGL 385	(3)	Topics in Literature and Film
ENGL 391	(3)	Special Topics: Cultural Studies 1
ENGL 393	(3)	Canadian Cinema
ENGL 450	(3)	Film Aesthetics
ENGL 451	(3)	A Period in Cinema
ENGL 476	(3)	Alternative Approaches to Media 1
ENGL 479	(3)	Philosophy of Film

ENGL 480	(3)	Studies in History of Film 1
ENGL 481	(3)	A Film-Maker 2
ENGL 482	(3)	International Cinema 2
ENGL 483	(3)	Seminar in the Film
ENGL 484	(3)	Seminar in the Film
ENGL 488	()	
ENGL 492	(3)	Image and Text
ENGL 585	(3)	Cultural Studies: Film
FILM 499	(3)	Internship: World Cinemas
FREN 310	(3)	Cinéma français
FREN 311	(3)	Cinéma francophone
FREN 315	(3)	Cinéma québécois
GERM 357	(3)	German Culture in European Context
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
GERM 373	(3)	Weimar German Cinema
HISP 340	(3)	Latin American Cinema
HISP 341	(3)	Spanish Cinema
HIST 435	(3)	Topics in South Asian History
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film
LLCU 300	(3)	Cinema and the Visual
MUHL 330	(3)	Music and Film
PLAI 500	(3)	Advanced Interdisciplinary Humanities Seminar
RUSS 213	(3)	Introduction to Soviet Film
RUSS 395	(3)	Soviet Cinema: Art and Politics

4.10.22 International Development

McGill's Institute for the Study of International Development (ISID), its programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.23: International Development](#).

4.10.22.1 Bachelor of Arts (B.A.) - Minor Concentration African Studies (18 credits)

The Minor Concentration African Studies is available for those students majoring in a discipline of the Faculty of Arts who wish to acquire interdisciplinary knowledge of Africa.

This program may be expanded to the Major Concentration African Studies.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (12 credits)

12 credits selected as follows:

3 credits from the Group A or "core" course list and

9 credits from the Group B course list drawn from at least 2 disciplines with no more than 6 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the program adviser.

Students who wish to obtain program credit for other courses with 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)	Seminar: African History
HIST 579D2	(3)	Seminar: African History

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa
HIST 382	(3)	History of South Africa
HIST 498	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918

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

4.10.22.2 Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)

The Major Concentration African Studies provides students with an interdisciplinary approach to the study of the African continent.

Students wishing to major in African Studies should consult the Program Adviser at the beginning of their first academic year. In the African Studies Major concentration, students will be encouraged to identify an area within a discipline of the Faculty, taking as many relevant courses as possible in that field.

Required Courses (6 credits)

AFRI 200	(3)	Introduction to African Studies
AFRI 598	(3)	Research Seminar in African Studies

Complementary Courses (30 credits)

30 credits selected as follows:

9 credits from the Group A or "core" course list and

21 credits from the Group B course list drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

If courses listed below are not available in any particular year, modifications to the program may be made with the approval of the Program Adviser.

Students who wish to obtain program credit for other courses with African content should seek approval from the Program Adviser. African content may be found in certain courses offered in Islamic Studies and Religious Studies.

Group A

9 credits from:

ANTH 322	(3)	Social Change in Modern Africa
HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
POLI 324	(3)	Developing Areas/Africa

Group B

21 credits from the Group B course lists below drawn from at least 3 disciplines with no more than 9 credits from any one discipline.

African Studies

AFRI 401	(3)	Swahili Language and Culture
AFRI 480	(3)	Honours Thesis
AFRI 481	(3)	Special Topics 1
AFRI 499	(3)	Arts Internships: African Studies
HIST 579D1	(3)	Seminar: African History
HIST 579D2	(3)	Seminar: African History

Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 301	(3)	Nomadic Pastoralists
ANTH 322	(3)	Social Change in Modern Africa
ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa

Economics

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
ECON 416	(3)	Topics in Economic Development 2

English

* Note: Course is counted only when African materials are taught.

ENGL 320*	(3)	Postcolonial Literature
ENGL 352*	(3)	Theories of Difference
ENGL 421	(3)	African Literature

Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 416	(3)	Africa South of the Sahara

History

HIST 200	(3)	Introduction to African History
HIST 201	(3)	Modern African History
HIST 381	(3)	Colonial Africa
HIST 382	(3)	History of South Africa
HIST 498	(3)	Independent Research
HIST 528	(3)	Indian Ocean World Slave Trade

Islamic Studies

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 360	(3)	Islam and Politics
ISLA 410	(3)	History: Middle-East 1798-1918

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)

The B.A.; Minor Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, and key development-related themes.

At least 9 of the 18 credits must be at the 300 level or above.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (9 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development

Complementary Courses (9 credits)

Thematic

9 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 212	(3)	Anthropology of Development
ANTH 222	(3)	Legal Anthropology
ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
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EAST 213	(3)	Introduction: East Asian Culture: Korea
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Economics

ECON 205	(3)	An Introduction to Political Economy
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ECON 209	(3)	Macroeconomic Analysis and Applications
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ECON 223	(3)	Political Economy of Trade Policy
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ECON 314	(3)	Economic Development 2
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ECON 326	(3)	Ecological Economics
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ECON 336	(3)	The Chinese Economy
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ECON 347	(3)	Economics of Climate Change
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ECON 411	(3)	Economic Development: A World Area
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ECON 416	(3)	Topics in Economic Development 2
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ECON 473	(3)	Income Distribution
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English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 210	(3)	Global Places and Peoples
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GEOG 216	(3)	Geography of the World Economy
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GEOG 221	(3)	Environment and Health
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GEOG 302	(3)	Environmental Management 1
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GEOG 303	(3)	Health Geography
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GEOG 310	(3)	Development and Livelihoods
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GEOG 325	(3)	New Master-Planned Cities
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GEOG 403	(3)	Global Health and Environmental Change
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GEOG 408	(3)	Geography of Development
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GEOG 410	(3)	Geography of Underdevelopment: Current Problems
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GEOG 425	(3)	Southeast Asia Urban Field Studies
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GEOG 510	(3)	Humid Tropical Environments
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History

Students may count either HIST 339 or POLI 347 towards their program but not both.

HIST 197	(3)	FYS: Race in Latin America
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HIST 200	(3)	Introduction to African History
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HIST 201	(3)	Modern African History
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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 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development
INTD 360	(3)	Environmental Challenges in Development
INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law

ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime

POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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4.10.22.4 Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)

The B.A.; Major Concentration in International Development Studies focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Course Selection Guidelines for the Overall Program

1. At least 18 of the 36 credits must be at the 300 level or above.
2. At least 9 credits must be from INTD courses.
3. Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

Required Courses (12 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development
INTD 497	(3)	Advanced Topics in International Development

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic

12-15 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 222	(3)	Legal Anthropology

ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

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 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development

INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 499	(3)	Internship: International Development Studies

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501	(3)	Nutrition in Developing Countries
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Political Science

POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 347	(3)	Arab-Israel Conflict, Crisis, Peace
POLI 349	(3)	Foreign Policy: Asia
POLI 350	(3)	Global Environmental Politics
POLI 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 359	(3)	Topics in International Politics 1
POLI 369	(3)	Politics of Southeast Asia
POLI 372	(3)	Indigenous Peoples and the Canadian State
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics

Religious Studies

RELG 331	(3)	Religion and Globalization
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society

Sociology

SOCI 234	(3)	Population and Society
SOCI 265	(3)	War, States and Social Change
SOCI 307	(3)	Globalization
SOCI 309	(3)	Health and Illness
SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society

SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods

3-6 credits from the following: *

Anthropology

ANTH 358	(3)	The Process of Anthropological Research
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Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

4.10.22.5 Bachelor of Arts (B.A.) - Joint Honours Component International Development Studies (36 credits)

The B.A.; Joint Honours - International Development Studies component focuses on the many challenges facing developing countries, including issues related to socio-economic inequalities and well being, governance, peace and conflict, environment and sustainability, key development-related themes, and training in research methods related to international development studies.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary Honours thesis (if applicable).

Honours students must maintain a CGPA of 3.30 in their program courses and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Course Selection Guidelines for the Overall Program

1. At least 18 of the 36 credits must be at the 300 level or above. Nine credits must be at the 400 level or above.
2. At least 12 credits must be from INTD courses.
3. Students cannot take more than 12 credits in any one discipline other than the INTD discipline.

Students who are pursuing a Field Studies program can have a portion of their Field Studies courses count towards their IDS program. See Adviser in office for details.

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 (12 credits)

ECON 208	(3)	Microeconomic Analysis and Applications
ECON 313	(3)	Economic Development 1
INTD 200	(3)	Introduction to International Development
INTD 498	(3)	Honours Seminar in International Development

Complementary Courses (24 credits)

6 credits from the following two Introductory Categories.

Culture, Populations and Development

3 credits from the following:

ANTH 202	(3)	Socio-Cultural Anthropology
ANTH 212	(3)	Anthropology of Development
GEOG 210	(3)	Global Places and Peoples
INTD 350	(3)	Culture and Development

Politics, Society and Development

3 credits from the following:

POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
SOCI 254	(3)	Development and Underdevelopment

Thematic (12 credits)

12 credits from the following:

Agriculture

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
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Agricultural Economics

AGEC 430	(3)	Agriculture, Food and Resource Policy
AGEC 442	(3)	Economics of International Agricultural Development

Anthropology

ANTH 206	(3)	Environment and Culture
ANTH 209	(3)	Anthropology of Religion
ANTH 222	(3)	Legal Anthropology

ANTH 227	(3)	Medical Anthropology
ANTH 308	(3)	Political Anthropology 01
ANTH 318	(3)	Globalization and Religion
ANTH 322	(3)	Social Change in Modern Africa
ANTH 326	(3)	Anthropology of Latin America
ANTH 327	(3)	Anthropology of South Asia
ANTH 338	(3)	Indigenous Studies of Anthropology
ANTH 339	(3)	Ecological Anthropology
ANTH 343	(3)	Anthropology and the Animal
ANTH 418	(3)	Environment and Development
ANTH 422	(3)	Contemporary Latin American Culture and Society
ANTH 436	(3)	North American Native Peoples
ANTH 500	(3)	Chinese Diversity and Diaspora
ANTH 512	(3)	Political Ecology

Business Administration

BUSA 433*	(3)	Topics in International Business 1
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* When topic is relevant to IDS.

Canadian Studies

CANS 315	(3)	Indigenous Art and Culture
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East Asian Studies

EAST 211	(3)	Introduction: East Asian Culture: China
EAST 213	(3)	Introduction: East Asian Culture: Korea

Economics

ECON 205	(3)	An Introduction to Political Economy
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 223	(3)	Political Economy of Trade Policy
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 336	(3)	The Chinese Economy
ECON 347	(3)	Economics of Climate Change
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in Economic Development 2
ECON 473	(3)	Income Distribution

English

ENGL 440	(3)	First Nations and Inuit Literature and Media
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Geography

GEOG 216	(3)	Geography of the World Economy
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 325	(3)	New Master-Planned Cities
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 510	(3)	Humid Tropical Environments

History

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 340	(3)	History of Modern Egypt
HIST 341	(3)	Themes in South Asian History
HIST 360	(3)	Latin America since 1825
HIST 361	(3)	Topics in Canadian Regional History
HIST 363	(3)	Canada 1870-1914
HIST 366	(3)	Themes in Latin American History
HIST 382	(3)	History of South Africa
HIST 408	(3)	Colonialism and Native Peoples
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 528	(3)	Indian Ocean World Slave Trade

International Development Studies

INTD 350	(3)	Culture and Development
INTD 352	(3)	Disasters and Development
INTD 354	(3)	Civil Society and Development
INTD 360	(3)	Environmental Challenges in Development

INTD 397	(3)	Topics in International Development
INTD 398	(3)	Topics in Conflict and Development
INTD 490	(3)	Development Research Project
INTD 491	(3)	Honours Thesis
INTD 492	(6)	Honours Thesis with Field Research
INTD 497	(3)	Advanced Topics in International Development
INTD 499	(3)	Internship: International Development Studies
INTD 597	(3)	Seminar in International Development

Islamic Studies

ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 310	(3)	Women in Islam
ISLA 345	(3)	Science and Civilization in Islam
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 365	(3)	Middle East Since the 1970's
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 421	(3)	Islamic Culture - Indian Subcontinent

Latin American & Caribbean Studies

LACS 497*	(3)	Research Seminar: Latin America and the Caribbean
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* When topic is relevant to IDS.

Management Core

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

Management, Organizational Behavior

ORGB 380	(3)	Cross Cultural Management
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Management Policy

MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 402	(3)	Systems Thinking and Sustainability

Nutrition

NUTR 501 (3) Nutrition in Developing Countries

Political Science

POLI 319 (3) Politics of Latin America
 POLI 322 (3) Political Change in South Asia
 POLI 324 (3) Developing Areas/Africa
 POLI 338 (3) Developing Areas/Topics 1
 POLI 340 (3) Developing Areas/Middle East
 POLI 341 (3) Foreign Policy: The Middle East
 POLI 345 (3) International Organizations
 POLI 347 (3) Arab-Israel Conflict, Crisis, Peace
 POLI 349 (3) Foreign Policy: Asia
 POLI 350 (3) Global Environmental Politics
 POLI 352 (3) International Policy/Foreign Policy: Africa
 POLI 353 (3) Politics of the International Refugee Regime
 POLI 359 (3) Topics in International Politics 1
 POLI 369 (3) Politics of Southeast Asia
 POLI 372 (3) Indigenous Peoples and the Canadian State
 POLI 380 (3) Contemporary Chinese Politics
 POLI 381 (3) Politics in Japan and South Korea
 POLI 422 (3) Developing Areas/Topics 2
 POLI 423 (3) Politics of Ethno-Nationalism
 POLI 435 (3) Identity and Inequality
 POLI 441 (3) IPE: Trade
 POLI 442 (3) International Relations of Ethnic Conflict
 POLI 445 (3) International Political Economy: Monetary Relations
 POLI 450 (3) Peacebuilding
 POLI 474 (3) Inequality and Development
 POLI 476 (3) Religion and Politics
 POLI 480 (3) Contentious Politics

Religious Studies

RELG 331 (3) Religion and Globalization
 RELG 370 (3) Religion and Human Rights
 RELG 371 (3) Ethics of Violence/Non-Violence
 RELG 375 (3) Religion, Politics and Society

Sociology

SOCI 234 (3) Population and Society
 SOCI 265 (3) War, States and Social Change
 SOCI 307 (3) Globalization
 SOCI 309 (3) Health and Illness

SOCI 365	(3)	Health and Development
SOCI 370	(3)	Sociology: Gender and Development
SOCI 446	(3)	Colonialism and Society
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 550	(3)	Developing Societies
SOCI 555	(3)	Comparative Historical Sociology

Social Work

SWRK 400	(3)	Policy and Practice for Refugees
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Methods (6 credits)

6 credits from the following:*

* When selecting their Methods courses, students must consult with the IDS Adviser. They must also consult with the most recent Faculty of Arts policy on course overlap: https://www.mcgill.ca/study/faculties/arts/undergraduate/ug_arts_course_reqs

Anthropology

ANTH 358	(3)	The Process of Anthropological Research
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Economics

ECON 227D1	(3)	Economic Statistics
ECON 227D2	(3)	Economic Statistics

International Development Studies

INTD 356	(3)	Quantitative Methods for Development
INTD 358	(3)	Ethnographic Approaches to Development

Political Science

POLI 210	(3)	Political Science Research Methods
POLI 461	(3)	Advanced Quantitative Political Science

Sociology

SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 477	(3)	Qualitative Methods in Sociology

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
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
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 320	(3)	Contemporary Brazilian Literature and Film
HISP 328	(3)	Literature of Ideas: Latin America
HISP 332	(3)	Latin American Literature of 19th Century
HISP 333	(3)	Theatre, Performance and Politics in Latin America
HISP 352	(3)	Latin American Novel
HISP 356	(3)	Latin American Short Story
HISP 358	(3)	Gender and Textualities
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 505	(3)	Seminar in Hispanic Studies 01

History

HIST 197	(3)	FYS: Race in Latin America
HIST 223	(3)	Indigenous Peoples and Empires
HIST 366	(3)	Themes in Latin American History
HIST 409	(3)	Topics in Latin American History
HIST 419	(3)	Central America
HIST 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

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
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4.10.22.7 Bachelor of Arts (B.A.) - Minor Concentration Latin American & Caribbean Studies (18 credits)

The B.A.; Minor Concentration in Latin American and Caribbean Studies focuses on a broad, interdisciplinary view of key aspects of Latin America and the Caribbean. The program may be expanded to the Major Concentration in Latin American and Caribbean Studies.

Required Course (3 credits)

LACS 497	(3)	Research Seminar: Latin America and the Caribbean
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Complementary Courses (15 credits)

3-6 credits to be chosen from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2

3-6 credits to be chosen from:

HIST 309	(3)	History of Latin America to 1825
HIST 360	(3)	Latin America since 1825
LACS 480	(3)	Latin American and Caribbean Studies Reading Course
LACS 499	(3)	Internship: Latin America and Caribbean Studies
POLI 319	(3)	Politics of Latin America

3-9 credits to be selected from the following course list in consultation with the Program Adviser. If more than one course is chosen, they must be from at least two different disciplines or departments. At least one course should be at the 300 level or above. No more than 6 credits in Spanish or Portuguese language shall count for the Minor Concentration.

Courses Offered by Other Units**Anthropology**

ANTH 212	(3)	Anthropology of Development
ANTH 307	(3)	Andean Prehistory
ANTH 319	(3)	Inka Archaeology and Ethnohistory
ANTH 326	(3)	Anthropology of Latin America
ANTH 332	(3)	Mesoamerican Archaeology
ANTH 422	(3)	Contemporary Latin American Culture and Society

Canadian Studies

CANS 412	(3)	Canada and Americas Seminar
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Economics

ECON 313	(3)	Economic Development 1
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ECON 314 (3) Economic Development 2

English

* when given under a topic related to Latin American & Caribbean Studies

ENGL 431 (3) Studies in Drama

Geography

* Note: GEOG 404 may only count toward the requirements for this program when the topic is related to Panama.

GEOG 310 (3) Development and Livelihoods
 GEOG 404* (3) Environmental Management 2
 GEOG 408 (3) Geography of Development
 GEOG 410 (3) Geography of Underdevelopment: Current Problems
 GEOG 498 (3) Humans in Tropical Environments
 GEOG 510 (3) Humid Tropical Environments

Hispanic Studies

HISP 219 (6) Spanish Language Intensive - Intermediate
 HISP 220D1 (3) Spanish Language: Intermediate
 HISP 220D2 (3) Spanish Language: Intermediate
 HISP 225 (3) Hispanic Civilization 1
 HISP 226 (3) Hispanic Civilization 2
 HISP 301 (3) Hispanic Literature and Culture in English 1
 HISP 320 (3) Contemporary Brazilian Literature and Film
 HISP 328 (3) Literature of Ideas: Latin America
 HISP 332 (3) Latin American Literature of 19th Century
 HISP 333 (3) Theatre, Performance and Politics in Latin America
 HISP 352 (3) Latin American Novel
 HISP 356 (3) Latin American Short Story
 HISP 358 (3) Gender and Textualities
 HISP 437 (3) Colonial / Postcolonial Latin America
 HISP 439 (3) Topics: Latin American Literature
 HISP 453 (3) 20th Century Latin American Poetry
 HISP 505 (3) Seminar in Hispanic Studies 01

History

HIST 197 (3) FYS: Race in Latin America
 HIST 223 (3) Indigenous Peoples and Empires
 HIST 366 (3) Themes in Latin American History
 HIST 409 (3) Topics in Latin American History
 HIST 419 (3) Central America
 HIST 580D1 (3) European and Native-American Encounters
 HIST 580D2 (3) European and Native-American Encounters

Political Science

POLI 227 (3) Developing Areas/Introduction

4.10.23 Islamic Studies (ISLA)

Please see [section 4.10.36: World Islamic and Middle East Studies \(ISLA\)](#) for more information.

4.10.24 Jewish Studies (JWST)

The Department of Jewish Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.25: Jewish Studies \(JWST\)](#).

4.10.24.1 Bachelor of Arts (B.A.) - Minor Concentration Jewish Studies (18 credits)

In order to permit students flexibility within their chosen area, all courses in the Jewish Studies Concentrations are placed into the category "Complementary Courses". There is no language requirement for this minor concentration.

This program may be expanded to the Major Concentration Jewish Studies.

Complementary Courses (18 credits)

18 credits in Jewish Studies of which 9 are normally taken at the 300 level or above.

Consultation with an adviser is strongly recommended.

Areas of Jewish Studies

At least 9 credits will normally be taken at an advanced level in a single area or theme (e.g., Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies).

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	(0)	
JWST 329	(0)	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	(0)	
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	(0)	
JWST 542	(0)	
JWST 543	(0)	
JWST 546	(0)	
JWST 548	(0)	
JWST 554	(0)	
JWST 571	(0)	
JWST 573	(0)	
JWST 575	(0)	
JWST 581	(3)	Aramaic Language

RELG 307 (3) Bible, Quran and Interpretations

East European Studies

HIST 307 (3) Jews in Poland
 HIST 427 (3) The Hasidic Movement
 JWST 206 (3) Introduction to Yiddish Literature
 JWST 217 (3) Jewish Studies 3: 1000 - 2000
 JWST 240 (3) The Holocaust
 JWST 351 (3) Studies in Modern Jewish Literature
 JWST 361 (3) The Shtetl: 1500-1897
 JWST 365 (3) Modern Jewish Ideologies
 JWST 366 (3) History of Zionism
 JWST 381 (3) God and Devil in Modern Yiddish Literature
 JWST 383 (3) Holocaust Literature
 JWST 404 ()
 JWST 445 (3) The Poetry of Nationalism
 JWST 485 (3) Tutorial in Yiddish Literature
 JWST 486 (3) Tutorial in Yiddish Literature
 JWST 585 (3) Tutorial: Eastern European Studies 1
 JWST 586 (3) Tutorial: Eastern European Studies 2

Jewish History

HIST 207 (3) Jewish History: 400 B.C.E. to 1000
 HIST 219 (3) Jewish History: 1000 - 2000
 HIST 307 (3) Jews in Poland
 HIST 427 (3) The Hasidic Movement
 HIST 572D1 (3) Seminar in Jewish History
 HIST 572D2 (3) Seminar in Jewish History
 JWST 211 (3) Jewish Studies 1: Biblical Period
 JWST 216 (3) Jewish Studies 2: 400 B.C.E. - 1000
 JWST 217 (3) Jewish Studies 3: 1000 - 2000
 JWST 240 (3) The Holocaust
 JWST 306 (3) The American Jewish Community
 JWST 314 (3) Denominations in North American Judaism
 JWST 315 (3) Modern Liberal Jewish Thought
 JWST 361 (3) The Shtetl: 1500-1897
 JWST 365 (3) Modern Jewish Ideologies
 JWST 366 (3) History of Zionism

Jewish Thought

EDER 318 (3) Teaching the Jewish Liturgy
 HIST 207 (3) Jewish History: 400 B.C.E. to 1000

HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	
JWST 543	()	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	()	
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	()	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	()	
JWST 588	()	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	()	
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 576	()	

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

4.10.24.2 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	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture

Areas of Jewish Studies

24 credits in Jewish Studies of which at least 12 are devoted to a single area of study: Biblical Studies, East European Studies, Jewish History, Jewish Thought, Literature (Hebrew, Yiddish), Modern Jewish Studies, and Rabbinic Studies.

Students without the background necessary to complete the advanced language requirement may substitute up to 12 credits in language.

Note: Hebrew language courses are found listed under the heading "Language and Literature - Hebrew", and Yiddish language courses are found under the heading "Language and Literature - Yiddish" in the areas of study lists below.

Biblical Studies

JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 310	(3)	Believers, Heretics and Critics
JWST 327	(3)	A Book of the Bible
JWST 328	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 546	()	

JWST 548	(0)	
JWST 554	(0)	
JWST 571	(0)	
JWST 573	(0)	
JWST 575	(0)	
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	(0)	
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897

JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	
JWST 543	()	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture

JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	()	
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	()	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	()	
JWST 588	()	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature

JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	()	
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 576	()	

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 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

4.10.24.3 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	()	
JWST 329	()	
JWST 330	(3)	Topics in the Hebrew Bible
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 546	()	
JWST 548	()	
JWST 554	()	
JWST 571	()	
JWST 573	()	
JWST 575	()	
JWST 581	(3)	Aramaic Language
RELG 307	(3)	Bible, Quran and Interpretations

East European Studies

HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
JWST 206	(3)	Introduction to Yiddish Literature
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 351	(3)	Studies in Modern Jewish Literature
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 404	()	
JWST 445	(3)	The Poetry of Nationalism
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 585	(3)	Tutorial: Eastern European Studies 1
JWST 586	(3)	Tutorial: Eastern European Studies 2

Jewish History

HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 307	(3)	Jews in Poland
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000

JWST 240	(3)	The Holocaust
JWST 306	(3)	The American Jewish Community
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism

Jewish Thought

EDER 318	(3)	Teaching the Jewish Liturgy
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
JWST 201	(3)	Jewish Law
JWST 216	(3)	Jewish Studies 2: 400 B.C.E. - 1000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 310	(3)	Believers, Heretics and Critics
JWST 314	(3)	Denominations in North American Judaism
JWST 315	(3)	Modern Liberal Jewish Thought
JWST 337	(3)	Jewish Philosophy and Thought 1
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 358	(3)	Topics in Jewish Philosophy 1
JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 474	(3)	Maimonides' Mishneh Torah
JWST 542	()	
JWST 543	()	
JWST 558	(3)	Topics: Modern Jewish Thought

Language and Literature - Hebrew

JWST 199	(3)	FYS: Images - Jewish Identities
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 225	(3)	Literature and Society
JWST 300	(3)	Charisma and Social Change
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 325	(3)	Israeli Literature in Translation
JWST 340D1	(3)	Advanced Hebrew

JWST 340D2	(3)	Advanced Hebrew
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
JWST 383	(3)	Holocaust Literature
JWST 403	(3)	Contemporary Hebrew Literature
JWST 404	()	
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	()	
JWST 361	(3)	The Shtetl: 1500-1897
JWST 381	(3)	God and Devil in Modern Yiddish Literature
JWST 383	(3)	Holocaust Literature
JWST 387	(3)	Modern Jewish Authors
JWST 480	(3)	Advanced Yiddish 1
JWST 481	(3)	Advanced Yiddish 2
JWST 485	(3)	Tutorial in Yiddish Literature
JWST 486	(3)	Tutorial in Yiddish Literature
JWST 530	(3)	Topics in Yiddish Literature
JWST 587	()	
JWST 588	()	

Modern Jewish Studies

EDER 319	(3)	Teaching the Holocaust
HIST 219	(3)	Jewish History: 1000 - 2000
HIST 427	(3)	The Hasidic Movement
HIST 572D1	(3)	Seminar in Jewish History
HIST 572D2	(3)	Seminar in Jewish History
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
JWST 240	(3)	The Holocaust
JWST 309	(3)	Jews in Film
JWST 346	(3)	Modern Jewish Studies
JWST 347	(3)	Modern Jewish Studies
JWST 348	(3)	Modern Jewish Studies
JWST 349	(3)	Modern Jewish Studies
JWST 351	(3)	Studies in Modern Jewish Literature

JWST 359	(3)	Topics in Jewish Philosophy 2
JWST 361	(3)	The Shtetl: 1500-1897
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
JWST 383	(3)	Holocaust Literature
JWST 386	(3)	American Jewish Literature
JWST 387	(3)	Modern Jewish Authors
JWST 404	()	
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	()	
JWST 333	()	
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	()	
JWST 542	()	
JWST 543	()	
JWST 576	()	

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 and Culture
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Complementary Courses (15 credits)

9-15 credits selected from the list below. At least 6 credits should be at the 300-level or above.

Students with an advanced knowledge of German, Italian, Russian, or Spanish can count GERM, HISP, ITAL, and RUSS literature courses taught in those languages toward the Minor Concentration. No more than 6 credits in any given area (LLCU, GERM, HISP, ITAL, and RUSS) shall count toward the Minor Concentration (not including LLCU 210).

GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 367	(3)	Topics in German Thought
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 370	(3)	Special Topics in German Film
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 302	(3)	Hispanic Literature and Culture in English 2
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 385	(3)	Italian Futurist Movement
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video
LLCU 200	(3)	Topics in Film

LLCU 201	(3)	Literature and Culture Topics
LLCU 220	(3)	Introduction to Literary Analysis
LLCU 230	(3)	Environmental Imaginations
LLCU 279	(0)	Introduction to Film History
LLCU 300	(3)	Cinema and the Visual
LLCU 301	(3)	Topics in Culture and Thought
RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 330	(3)	Chekhov without Borders
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire

0-6 credits in literature courses offered by Classical Studies (CLAS), English (ENGL), and French (FREN) selected from the following list:

CLAS 203	(3)	Greek Mythology
CLAS 301	(3)	Ancient Greek Literature and Society
CLAS 302	(3)	Roman Literature and Society
CLAS 306	(3)	Classics in Modern Media
CLAS 336	(3)	Modern Greek Literature
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 309	(3)	English Renaissance Drama 2
ENGL 310	(3)	Restoration and 18th Century Drama
ENGL 314	(3)	20th Century Drama
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

4.10.25.2 Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)

The Minor Concentration in German Language is designed to allow students to achieve linguistic proficiency in German and to introduce students to some of the major aspects of German culture.

This program may be expanded to the Major Concentration German Studies.

Students may begin at the intermediate or advanced level in their first year if they have taken German courses in high school or in CEGEP or through McGill Summer Studies.

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.

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

4.10.25.3 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

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
HISP 301	(3)	Hispanic Literature and Culture in English 1
HISP 345	(3)	Contemporary Hispanic Cultural Studies
HISP 347	(3)	Queer Iberia
HISP 355	(3)	Contemporary Spanish Literature and Culture
HISP 357	(3)	Latin American Digital Literature and Culture

4.10.25.4 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 and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century
ITAL 450	(3)	Italy and the Visual Age
ITAL 464	(3)	Machiavelli
ITAL 465	(3)	Religious Identities in Italy
ITAL 477	(3)	Italian Cinema and Video

4.10.25.5 Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)

The Minor Concentration in Russian will give students a basic working knowledge of Russian and the tools with which to explore Russian life and culture in the original. Students who can demonstrate to the Department that they have acquired the equivalent competence elsewhere may waive prerequisites for 300-level courses and above.

The Minor Concentration in Russian may be expanded to the Major Concentration in Russian.

Complementary Courses (18 credits)

18 credits to be chosen from:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 250	(3)	The Central European Novel
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 350	(3)	Central European Film
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1

RUSS 453 (3) Advanced Russian Language and Syntax 2

* RUSS 215 is not open to students who have taken RUSS 210 and RUSS 211.

** RUSS 316 is not open to students who have 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 250	(3)	The Central European Novel
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy

RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

4.10.25.7 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

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
GERM 348	(3)	Nature and Eco-poetics
GERM 350	(3)	Modernism and the Avant-Garde
GERM 351	(3)	Berlin
GERM 355	(3)	Nietzsche and Wagner
GERM 357	(3)	German Culture in European Context
GERM 358	(3)	Franz Kafka
GERM 359	(3)	Bertolt Brecht
GERM 360	(3)	German Drama
GERM 362	(3)	20th Century Literature Topics
GERM 364	(3)	Gender and Society in German Literature and Culture
GERM 365	(3)	Modern Short Fiction
GERM 366	(3)	Lyric Poetry
GERM 368	(3)	Fin-de-Siècle Vienna
GERM 369	(3)	The German Novel
GERM 371	(3)	German Cinema
GERM 372	(3)	Topics in German Cinema
GERM 373	(3)	Weimar German Cinema
GERM 375	(3)	German Media Studies
GERM 379	(3)	German Visual Culture
GERM 381	(3)	Topics in German Thought
GERM 385	(3)	Critical Theory
GERM 388	(3)	Post-Wall Culture
GERM 390	(3)	Topics in 21st Century German Literature and Culture
GERM 397	(3)	Individual Reading Course 01
GERM 398	(3)	Individual Reading Course 02
GERM 401	(3)	Advanced Topics in German Literature and Culture
GERM 580	(3)	Topics in German Literature and Culture

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 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.

Complementary Courses

36 credits selected as follows:

Language and Civilization

0-18 credits in Language and Civilization from:

HISP 210D1	(3)	Spanish Language: Beginners
HISP 210D2	(3)	Spanish Language: Beginners
HISP 218	(6)	Spanish Language Intensive - Elementary
HISP 219	(6)	Spanish Language Intensive - Intermediate
HISP 220D1	(3)	Spanish Language: Intermediate
HISP 220D2	(3)	Spanish Language: Intermediate
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

Survey of Literature

6 - 12 credits in Survey of Literature from:

HISP 241	(3)	Survey of Spanish Literature and Culture 1
HISP 242	(3)	Survey of Spanish Literature and Culture 2
HISP 243	(3)	Survey of Latin American Literature and Culture 1
HISP 244	(3)	Survey of Latin American Literature and Culture 2

300-Level or Above Hispanic Literature

12-30 credits in Hispanic literature at the 300 level or above, of which at least 6 credits must be in literature of the pre-1800 period, from:

HISP 320	(3)	Contemporary Brazilian Literature and Film
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 345	(3)	Contemporary Hispanic Cultural Studies
HISP 347	(3)	Queer Iberia
HISP 350	(3)	Spanish Literature from 1898 to the Civil War
HISP 352	(3)	Latin American Novel
HISP 355	(3)	Contemporary Spanish Literature and Culture
HISP 356	(3)	Latin American Short Story
HISP 357	(3)	Latin American Digital Literature and Culture
HISP 358	(3)	Gender and Textualities
HISP 425	(3)	Topics in Hispanic and Lusophone Visual Cultures
HISP 432	(3)	Literature - Discovery and Exploration Spain New World

HISP 438	(3)	Topics: Spanish Literature
HISP 439	(3)	Topics: Latin American Literature
HISP 453	(3)	20th Century Latin American Poetry
HISP 454	(3)	Major Figures: Spanish Literature and Culture
HISP 455	(3)	Major Figures: Latin American Literature and Culture
HISP 505	(3)	Seminar in Hispanic Studies 01

Pre-1800 Literature

At least 6 credits from:

HISP 432	(3)	Literature - Discovery and Exploration Spain New World
HISP 437	(3)	Colonial / Postcolonial Latin America
HISP 451	(3)	Don Quixote
HISP 458	(3)	Golden Age Literature: Renaissance
HISP 460	(3)	Golden Age Literature: Baroque

Note: No more than 12 credits in courses taught in English shall count towards the Major.

4.10.25.10 Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)

All students wishing to register for the Major Concentration Italian Studies are strongly urged to meet with a departmental adviser.

Complementary Courses (36 credits)

36 credits selected from the three Italian course lists as follows:

Group A – Basic Language Courses (0-12 credits)

- Students with no knowledge of the Italian language must take 12 credits in language.

- Students with some knowledge of the language may take 6 credits only selected from ITAL 210D1/ITAL 210D2, ITAL 215D1/ITAL 215D2, or ITAL 216.

- Students with competency in the language may substitute courses from Groups B and C for Group A - Basic Language courses.

ALL students with some background must consult with the Department for proper placement.

Group B – Courses Taught in Italian (a minimum of 12 credits, of which a maximum of 6 credits may be at the 200 level)

Group C – Courses Taught in English (0-12 credits)

Group A - Basic Language Courses

ITAL 205D1	(3)	Italian for Beginners
ITAL 205D2	(3)	Italian for Beginners
ITAL 206	(6)	Beginners Italian Intensive
ITAL 210D1	(3)	Italian for Advanced Beginners
ITAL 210D2	(3)	Italian for Advanced Beginners
ITAL 215D1	(3)	Intermediate Italian
ITAL 215D2	(3)	Intermediate Italian
ITAL 216	(6)	Intermediate Italian Intensive

Group B - Courses Taught in Italian

* Note: Only one of ITAL 250 or ITAL 255 can count toward the program.

ITAL 250*	(3)	Italian Literary Composition
ITAL 255*	(6)	Advanced Reading and Composition

ITAL 260	(3)	Reading Italian Literature
ITAL 270	(3)	Manzoni: Novel and Nationhood
ITAL 281	(3)	Masterpieces of Italian Literature 2
ITAL 290	(3)	Commedia Dell'Arte
ITAL 295	(3)	Italian Cultural Studies
ITAL 310	(3)	The Invention of Italian Literature
ITAL 329	(3)	Italian Cinematic Tradition
ITAL 332	(3)	Italian Theatrical Traditions
ITAL 341	(3)	The Art of Essay Writing
ITAL 345	(3)	Romanticism in Italy
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 362	(3)	Post-World War 2 Literature and Society
ITAL 368	(3)	Literature of the Renaissance
ITAL 371	(3)	The Italian Baroque
ITAL 376	(3)	Italian Epic Poetry
ITAL 380	(3)	Italian Realisms
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	(3)	Pirandello
ITAL 420	(3)	Leopardi Poet and Philosopher
ITAL 435	(3)	Petrarch and His Legacy
ITAL 436	(3)	Tasso's "Gerusalemme Liberata"
ITAL 542	(3)	History of Italian Language
ITAL 551	(3)	Boccaccio and the Italian Novella
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	(3)	13th-16th Century Literature

Group C - Courses Taught in English

ITAL 199	(3)	FYS: Italy's Literature in Context
ITAL 230	(3)	Understanding Italy
ITAL 307	(3)	Topics in Italian Culture
ITAL 355	(3)	Dante and the Middle Ages
ITAL 361	(3)	Modern Italian Literature
ITAL 363	(3)	Gender, Literature and Society
ITAL 365	(3)	The Italian Renaissance
ITAL 374	(3)	Classics of Italian Cinema
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	(3)	Italian Futurist Movement
ITAL 395	(3)	Interdisciplinary Seminar
ITAL 416	(3)	The Twentieth Century

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 RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2

RUSS 229 (3) Introduction to Russian Folklore

Group C (9 credits)

9 credits selected from the following courses or their equivalent:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 250	(3)	The Central European Novel
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit project proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

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.

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Admission to the Joint Honours program requires departmental approval. Joint Honours students must maintain a GPA of 3.30 in their program courses, and, according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Course (3 credits)

GERM 570 (3) Joint Honours Thesis

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications:

Students can elect to take either the German language stream in which most courses must be taught in German or the translation stream in which courses can be taught in either German or English.

6 credits must be in pre-20th Century literature and culture.

Students of the German language stream can take a maximum of 9 credits of LLCU courses or German Studies courses taught in English, only with prior approval.

3 credits at the 400 level (only applies to German language stream).

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

*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

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	()	
ITAL 356	(3)	Medieval Discourses on Love
ITAL 360	(3)	Contemporary Italian Prose
ITAL 368	()	
ITAL 380	()	
ITAL 383	(3)	Women's Writing since 1880
ITAL 400	(3)	Italian Regional Identities
ITAL 410	(3)	Italian Modernism
ITAL 411	()	
ITAL 420	()	
ITAL 435	()	
ITAL 436	()	
ITAL 542	()	
ITAL 551	()	
ITAL 560	(3)	Topics in 19th and 20th Century Literature
ITAL 563	()	

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	()	
ITAL 365	(3)	The Italian Renaissance
ITAL 375	(3)	Cinema and Society in Modern Italy
ITAL 385	()	
ITAL 395	()	
ITAL 416	()	
ITAL 464	(3)	Machiavelli
ITAL 477	(3)	Italian Cinema and Video

Group D - Courses Offered in Other Departments

ANTH 337	()	
ARTH 223	(3)	Introduction Italian Renaissance Art 1300-1500
ARTH 324	()	
ARTH 325	(3)	Visual Culture Renaissance Venice
CLAS 302	(3)	Roman Literature and Society

CLAS 404	(3)	Classical Tradition
ENGL 447	(3)	Crosscurrents/English Literature and European Literature 1
HIST 345	(3)	History of Italian Renaissance
HIST 380	(3)	The Medieval Mediterranean
HIST 398	(3)	Topics in Italian History
HIST 401	(3)	Topics: Medieval Culture and Society
MUHL 387	(3)	Opera from Mozart to Puccini

4.10.25.15 Bachelor of Arts (B.A.) - Joint Honours Component Russian (36 credits)

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students must consult with advisers in the respective departments for approval of their course selection.

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00. Departments may require a higher program GPA. Joint Honours students must meet the requirements of both components of their program.

The specific course requirements for the 36-credit Joint Honours Component Russian program are determined on an individual basis in consultation with the student's program adviser(s).

The Honours thesis course, RUSS 490, is usually completed in the student's final year and is on a topic in Russian literature or culture agreed upon in consultation with the student's thesis advisor.* It is to be written independently from the thesis that is required by the second program in which the student is pursuing their Joint Honours degree

*Note: Students must submit their Russian thesis project proposals to the Russian Studies departmental adviser by March 15th or November 15th of the preceding term for independent research courses.

Required Course (3 credits)

RUSS 490	(3)	Honours Seminar 01
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Complementary Courses (33 credits)

33 credits selected from the following specifications:

Group A:Russian Language

Students entering this program with previous knowledge of or exposure to Russian may, with permission of the Department, replace this group with selections from Group B or Group C.

18 credits selected from the following courses or their equivalent:

RUSS 210	(3)	Elementary Russian Language 1
RUSS 211	(3)	Elementary Russian Language 2
RUSS 215*	(6)	Elementary Russian Language Intensive 1
RUSS 300	(3)	Russian for Heritage Speakers 1
RUSS 301	(3)	Russian for Heritage Speakers 2
RUSS 310	(3)	Intermediate Russian Language 1
RUSS 311	(3)	Intermediate Russian Language 2
RUSS 316**	(6)	Intermediate Russian Language Intensive 2
RUSS 327	(3)	Reading Russian Poetry
RUSS 328	(3)	Readings in Russian
RUSS 400	(3)	Advanced Russian Language 1
RUSS 401	(3)	Advanced Russian Language 2
RUSS 415***	(6)	Advanced Russian Language Intensive 1
RUSS 416	(6)	Advanced Russian Language Intensive 2
RUSS 452	(3)	Advanced Russian Language and Syntax 1

RUSS 453 (3) Advanced Russian Language and Syntax 2

*RUSS 215 is not open to students who have taken RUSS 210 or RUSS 211.

**RUSS 316 is not open to students who have taken RUSS 310 or RUSS 311.

***RUSS 415 is not open to students who have taken RUSS 400 or RUSS 401.

Group B

6-9 credits selected from the following courses or their equivalent:

RUSS 217	(3)	Russia's Eternal Questions
RUSS 218	(3)	Russian Literature and Revolution
RUSS 223	(3)	Russian 19th Century: Literary Giants 1
RUSS 224	(3)	Russian 19th Century: Literary Giants 2
RUSS 229	(3)	Introduction to Russian Folklore
RUSS 250	(3)	The Central European Novel

Group C

6-9 credits selected from the following courses or their equivalent:

RUSS 213	(3)	Introduction to Soviet Film
RUSS 330	(3)	Chekhov without Borders
RUSS 333	(3)	Petersburg: City of Myth
RUSS 337	(3)	Vladimir Nabokov
RUSS 340	(3)	Russian Short Story
RUSS 347	(3)	Late and Post-Soviet Culture
RUSS 350	(3)	Central European Film
RUSS 357	(3)	Leo Tolstoy
RUSS 358	(3)	Fyodor Dostoevsky
RUSS 365	(3)	Supernatural and Absurd in Russian Literature
RUSS 369	(3)	Narrative and Memory in Russian Culture
RUSS 381	(3)	Russia's Utopia Complex
RUSS 382	(3)	Russian Opera
RUSS 385	(3)	Russian Drama: from Pushkin to Chekhov
RUSS 390	(3)	Special Topics in Russian
RUSS 395	(3)	Soviet Cinema: Art and Politics
RUSS 397	(3)	Tarkovsky: Cinema and Philosophy
RUSS 398	(3)	Soviet Women Filmmakers
RUSS 427	(3)	Russian Fin de Siècle
RUSS 428	(3)	Russian Avantgarde
RUSS 430	(3)	High Stalinist Culture 1
RUSS 440	(3)	Russia and Its Others
RUSS 454	(3)	Narratives of Desire
RUSS 470*	(3)	Individual Reading Course
RUSS 475	(3)	Special Topics in Russ Culture
RUSS 500	(3)	Special Topics

* Students must submit proposals to their departmental adviser by March 15th or November 15th of the preceding term for individual reading and independent research courses.

Group D: Languages, Literatures, and Cultures and Faculty of Arts

0-3 credits to be chosen from the following or their equivalent:

ANTH 303	(3)	Ethnographies of Post-socialism
ECON 331	(3)	Economic Development: Russia and USSR
HIST 216	(3)	Introduction to Russian History
HIST 226	(3)	East Central and Southeastern Europe in 20th Century
HIST 306	(3)	East Central Europe, 1944-2004
HIST 313	(3)	Habsburg Monarchy, 1618-1918
HIST 316	(3)	History of the Russian Empire
HIST 326	(3)	History of the Soviet Union
HIST 406	(3)	Topics: Russian History
HIST 576D1	(3)	Seminar: Topics in Russian History
HIST 576D2	(3)	Seminar: Topics in Russian History
JWST 303	(3)	The Soviet Jewish Experience
POLI 329	(3)	Russian and Soviet Politics
POLI 331	(3)	Politics in East Central Europe
POLI 419	(3)	Transitions from Communism
SOCI 455	(3)	Post-Socialist Societies

Note: For pre/corequisites and availability of Anthropology (ANTH), Economics (ECON), History (HIST), Jewish Studies (JWST), Political Science (POLI), and Sociology (SOCI) courses, students should consult the offering department and Class Schedule.

4.10.26 Linguistics (LING)

The Department of Linguistics, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.27: Linguistics \(LING\)](#).

4.10.26.1 Bachelor of Arts (B.A.) - Minor Concentration Linguistics (18 credits)

This program may be expanded to the Major Concentration Linguistics.

Required Courses (9 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 371	(3)	Syntax 1

Complementary Courses (9 credits)

9 credits in Linguistics chosen according to the student's interests. At least 3 of these credits must be at the 400 or 500 level. Only 3 credits at the 200 level may count towards complementary credits. The complementary courses may include (but not limited to) the following:

COMP 230	(3)	Logic and Computability
LING 360	(3)	Introduction to Semantics
MATH 318	(3)	Mathematical Logic
PHIL 210	(3)	Introduction to Deductive Logic 1

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 four of the following courses: LING 330, LING 331, LING 360, LING 371, as well as in the Joint Honours Thesis, LING 481D1/D2. According to Faculty of Arts regulations, Joint Honours students must also maintain a minimum CGPA of 3.00 in general.

The requirement for First Class Honours is a CGPA of 3.50 and a minimum grade of A- in the Joint Honours Thesis. Inquiries may be addressed to the departmental office or to the Adviser for Undergraduate Studies.

Required Courses (21 credits)

LING 201	(3)	Introduction to Linguistics
LING 330	(3)	Phonetics
LING 331	(3)	Phonology 1
LING 360	(3)	Introduction to Semantics
LING 371	(3)	Syntax 1
LING 481D1	(1.5)	Joint Honours Thesis
LING 481D2	(1.5)	Joint Honours Thesis
PHIL 210	(3)	Introduction to Deductive Logic 1

Complementary Courses (15 credits)

15 credits in Linguistics (LING) chosen according to the student's interests. At least 9 of these credits must be at the 400/500 level.

Only 3 credits at the 200 level may count towards complementary credits.

4.10.27 Mathematics and Statistics (MATH)

The Department of Mathematics and Statistics, the discipline, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.22: Mathematics and Statistics \(MATH\)](#).

4.10.27.1 Bachelor of Arts (B.A.) - Minor Concentration Mathematics (18 credits)

The Minor Concentration Mathematics is offered in two versions: an expandable version, for students who wish to leave open the option of expanding the program into a Major Concentration Mathematics, and a non-expandable version for students who know on entry into the Minor that they do not wish to expand it into a major concentration.

The Minor Concentration Mathematics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System. Students planning on taking the Major Concentration Mathematics and the Minor Concentration Mathematics as part of Multi-track option C should select the Supplementary Minor Concentration in Mathematics in place of this Minor concentration.

Under option C, it is not possible to combine the Minor Concentration Mathematics and the Minor Concentration Statistics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

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)	Partial Differential Equations
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 Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 417	(3)	Linear Optimization

4.10.27.2 Bachelor of Arts (B.A.) - Minor Concentration Statistics (18 credits)

The Minor Concentration Statistics is offered only in a non-expandable version, that is, one that cannot be expanded into the Major Concentration Mathematics.

The Minor Concentration Statistics may be taken in conjunction with a major concentration in some other discipline under option A of the Multi-track System, or together with the Major Concentration Mathematics and a minor concentration (which must be in some other discipline than Mathematics) under option C.

Under option C, it is not possible to combine the Minor Concentration Statistics and the Minor Concentration Mathematics. Students wishing to do this should instead take the Major Concentration Mathematics under option B (two major concentrations) and select a large number of statistics complementaries.

For more information about the Multi-track System options please refer to the Faculty of Arts regulations under "Faculty Degree Requirements", "About Program Requirements", and "Departmental Programs".

No overlap is permitted with other programs.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 18 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (15 credits)

* Note: If the Minor Concentration Statistics is combined with the Major Concentration Mathematics, the required courses MATH 222, MATH 223 and MATH 323 must be replaced by courses selected from the Complementary Courses. Credit cannot be received for both MATH 223 and MATH 236 (listed as a required course in the Major Concentration Mathematics).

MATH 222*	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Applied Regression

Complementary Courses (3 credits)

3 credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 317	(3)	Numerical Analysis
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics

MATH 525	(4)	Sampling Theory and Applications
MATH 558	(0)	Design of Experiments

4.10.27.3 Bachelor of Arts (B.A.) - Major Concentration Mathematics (36 credits)

Students who have done well in MATH 242 and MATH 235 at the end of their first term should consider, in consultation with their adviser and the instructors of the courses 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 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, and MATH 417.

Students interested in careers in business, industry or government should consider the courses MATH 317, MATH 319, MATH 327, 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 Mathematics
MATH 423	(3)	Applied Regression

Remaining credits from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Partial Differential Equations
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 410	(3)	Majors Project
MATH 417	(3)	Linear Optimization
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

4.10.27.4 Bachelor of Arts (B.A.) - Joint Honours Component Mathematics (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

To remain in the Joint Honours program and receive the Joint Honours degree, a student must maintain the standards set by each discipline, as well as by the Faculty. In the Mathematics courses of the program a GPA of 3.00 and a CGPA of 3.00 must be maintained. Students who have difficulty in maintaining the required level should change to another program before entering their final year.

Program Prerequisites

Students who have not completed the program prerequisite courses listed below or their equivalents will be required to make up any deficiencies in these courses over and above the 36 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 222	(3)	Calculus 3

Required Courses (9 credits)

MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2

Complementary Courses (27 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
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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 (0) Honours Advanced Calculus

** It is strongly recommended that students take MATH 358.

15 credits selected from the list below. The remaining credits are to be chosen from the full list of available Honours courses in Mathematics and Statistics.

* Not open to students who have taken MATH 354.

** Not open to students who have taken MATH 355.

*** Not open to students who have taken MATH 370.

+ Not open to students who have taken MATH 371.

++ Not open to students who have taken MATH 380.

MATH 325 (3) Honours Ordinary Differential Equations

MATH 356 (3) Honours Probability

MATH 357 (3) Honours Statistics

MATH 454* (3) Honours Analysis 3

MATH 455** (3) Honours Analysis 4

MATH 456*** (3) Honours Algebra 3

MATH 457+ (3) Honours Algebra 4

MATH 458++ (3) Honours Differential Geometry

MATH 466 (3) Honours Complex Analysis

4.10.28 Philosophy (PHIL)

The Department of Philosophy, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.31: Philosophy \(PHIL\)](#).

4.10.28.1 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 427 (3) Topics in Critical Philosophy of Race

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 306	(3)	Philosophy of Mind
PHIL 310	(3)	Intermediate Logic
PHIL 311	(3)	Philosophy of Mathematics
PHIL 341	(3)	Philosophy of Science 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 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

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	(0)	
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	(0)	
PHIL 410	(0)	
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 419	(3)	Epistemology
PHIL 421	(3)	Metaphysics
PHIL 441	(3)	Philosophy of Science 2
PHIL 470	(3)	Topics in Contemporary Analytic Philosophy

Group B

3 credits from:

PHIL 375	(3)	Existentialism
PHIL 474	(3)	Phenomenology
PHIL 475	(3)	Topics in Contemporary European Philosophy

Group C

6 credits (two courses) from Group C OR Group D:

PHIL 344	(3)	Medieval and Renaissance Political Theory
PHIL 345	(3)	Greek Political Theory
PHIL 350	(3)	History and Philosophy of Ancient Science
PHIL 353	(3)	The Presocratic Philosophers

PHIL 354	(3)	Plato
PHIL 355	(3)	Aristotle
PHIL 356	(3)	Early Medieval Philosophy
PHIL 357	(0)	
PHIL 452	(3)	Later Greek Philosophy
PHIL 453	(3)	Ancient Metaphysics and Natural Philosophy
PHIL 454	(3)	Ancient Moral Theory

Group D

6 credits (two courses) from Group C OR Group D:

PHIL 360	(3)	17th Century Philosophy
PHIL 361	(3)	18th Century Philosophy
PHIL 366	(3)	18th and Early 19th Century German Philosophy
PHIL 367	(3)	19th Century Philosophy
PHIL 444	(3)	Early Modern Political Theory
PHIL 445	(3)	19th Century Political Theory

Group E

3 credits from:

PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 240	(3)	Political Philosophy 1
PHIL 242	(3)	Introduction to Feminist Theory

Group F

3 credits from:

PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
PHIL 427	(3)	Topics in Critical Philosophy of Race
PHIL 434	(3)	Metaethics
PHIL 442	(3)	Topics in Feminist Theory

4.10.28.3 Bachelor of Arts (B.A.) - Joint Honours Component Philosophy (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours program components from two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 and maintain a minimum program GPA of 3.00.

Admission to Joint Honours: Students must attain a 3.00 CGPA and have a 3.00 GPA in Philosophy courses.

Required Courses (9 credits)

PHIL 210	(3)	Introduction to Deductive Logic 1
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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 242	(3)	Introduction to Feminist Theory

Group A

6 credits from Group A or Group B.

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

Group B

6 credits from Group A or Group B.

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

9 credits of Philosophy (PHIL) at the 400 and 500 level (not including the Joint Honours tutorial), at least 3 credits of which must be at the 500 level.

Joint Honours Tutorial with Thesis

3 credits of Joint Honours tutorial with thesis, which can take either of two forms: a 6-credit interdisciplinary thesis, or a 3-credit thesis in Philosophy, i.e., PHIL 498 below.

PHIL 498	(3)	Tutorial 05
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4.10.29 Physics (PHYS)

The Department of Physics, the discipline, and specific courses are described in [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.30: Physics \(PHYS\)](#).

4.10.29.1 Bachelor of Science (B.Sc.) - Minor Physics (18 credits)

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

Students in certain programs (e.g., the Major Chemistry) will find that there are courses in the Minor that are already part of their program, or that they may not take for credit because of a substantial overlap of material with a course or courses in their program. After consultation with an adviser, such students may complete the Minor by substituting any other physics course(s) from the Major or Honours Physics programs.

Required Course (3 credits)

PHYS 257	(3)	Experimental Methods 1
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Complementary Courses (15 credits)

15 credits to be selected as follows:

One of:

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 251	(3)	Honours Classical Mechanics 1

One of:

PHYS 232	(3)	Heat and Waves
PHYS 253	(3)	Thermal Physics

One of:

PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2

One of:

PHYS 224	(3)	Physics of Music
PHYS 228	(3)	Energy and the Environment
PHYS 260	(3)	Modern Physics and Relativity
PHYS 320	(3)	Introductory Astrophysics
PHYS 346	(3)	Majors Quantum Physics

One of:

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

4.10.29.2 Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Physics (36 credits)

The Major Concentration Physics, which is restricted to students in the B.A. & Sc. or B.Sc./B.Ed., is a planned sequence of courses designed to permit a degree of specialization in this discipline. This program is insufficient to prepare a student for professional or graduate work in physics; students interested in pursuing a career in physics are advised to take the appropriate B.Sc. program in physics.

Required Courses* (30 credits)

* Required courses taken at CEGEP or elsewhere that are not credited toward the B.A. & Sc. or B.Sc./B.Ed. must be replaced by courses from the Complementary Course List.

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 257	(3)	Experimental Methods 1
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 346	(3)	Majors Quantum Physics

Complementary Courses (6 credits)

6 credits selected from:

PHYS 224	(3)	Physics of Music
PHYS 228	(3)	Energy and the Environment
PHYS 241	(3)	Signal Processing
PHYS 258	(3)	Experimental Methods 2
PHYS 260	(3)	Modern Physics and Relativity
PHYS 320	(3)	Introductory Astrophysics
PHYS 534	(3)	Nanoscience and Nanotechnology

or any 300- or 400-level course approved by an adviser.

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. These courses should be in different groups, the relevant groups being Canadian Politics, International Relations, Comparative Politics, Political Theory, and Methods.

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.

Course lists for each group of political science courses are provided below.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies

POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
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POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
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 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 355	(3)	The Politics of International Law
POLI 358	(3)	Political Economy of International Organizations
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4

POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

4.10.30.2 Bachelor of Arts (B.A.) - Major Concentration Political Science (36 credits)

Complementary Courses (36 credits)

36 credits of courses selected from the four main fields of political science (Canadian Politics, Comparative Politics (Developed Areas and Developing Areas), International Relations, and Political Theory) with the following specifications.

No more than one-half of the credits (18 credits) may be taken in a single field of political science, unless the field is Comparative Politics in which case the maximum is 21 credits, provided courses are taken in both Developed Areas and Developing Areas.

No more than 12 of the 36 credits may be at the 200 level. No more than 3 credits at the 200 level may be in any given group.

3 credits should be taken at the 400 level at McGill rather than as transfer credits.

In the final year, no course used toward the program requirements may be below the 300 level.

No more than 12 POLI transfer credits can be used toward the program requirements.

Advising Information

In the first year of the program (U1), students are advised to select their courses from at least three of the five main groups of courses in political science. U1 students should normally take courses at the 200 level only. However, those who have already completed the 200-level prerequisite for courses may take 300-level courses.

Course lists for each group of political science courses are provided below.

NOTE: POLI 200, 210, 311 and 461 can also be used towards this program.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 317	(3)	The Politics of Race in Canada
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 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa

POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 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 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 355	(3)	The Politics of International Law
POLI 358	(3)	Political Economy of International Organizations
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice

POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4
POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

4.10.30.3 Bachelor of Arts (B.A.) - Joint Honours Component Political Science (36 credits)

Students who wish to study at the Honours level in two Arts disciplines may apply to combine Joint Honours Program components from two Arts disciplines.

Prior to registering for each Joint Honours component, students should consult an adviser in each department for approval of their course selection and their interdisciplinary research project (if applicable).

To enter, remain and graduate in Joint Honours, students must achieve/maintain a 3.3 average in their political science courses and more than half of the political science grades must be at the B+ level or higher. According to Faculty regulations, Joint Honours students must maintain a minimum CGPA of 3.00 in general. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

To be awarded First Class Joint Honours at graduation, in addition to the Faculty requirement of a 3.50 CGPA, students must achieve a 3.6 average in their political science courses and more than half of political science grades must be at the A- level or higher. All political science courses taken at McGill are counted in determining a student's standing. (The specific criteria are given in the brochure "Major and Honours Program Guide", which may be found on the Department website <http://www.mcgill.ca/politicalscience/>.) To be awarded Joint Honours at graduation, students must be registered in the Joint Honours program in their final year. At graduation, students' Joint Honours standing will be determined by their overall record in the Joint Honours program. In addition to meeting these Political Science requirements, students must meet the requirements set forth by the other department.

Students may enter the Joint Honours program in U1.

Required Course (3 credits)

POLI 210*	(3)	Political Science Research Methods
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* 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.

Complementary Courses (33 credits)

33 credits of complementary courses selected with the following specifications.

3 credits in methods courses at the 300 or 400 level.

No more than one-half (18 credits) 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 21 credits. Refer to the lists below for course choices in each field.

One quarter (9 credits) of political science credits must be at the 400-level or above including one 500-level Honours Seminar. Refer to the lists below for course choices at the 400 and 500 levels in each field.

No more than 12 credits of political science courses (including POLI 210) may be at the 200 level. No more than 3 credits may be taken at the 200 level in each of the five groups of courses (Canadian Politics, International Relations, Comparative Politics (Developed Areas and Developing Areas), Political Theory, Methods). Students may not take 200-level political science courses in their final year.

No more than 12 POLI transfer credits can be used toward the program requirements.

Course lists for each group of political science courses are provided below.

Canadian Politics

POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 226	(3)	La vie politique québécoise
POLI 318	(3)	Comparative Local Government
POLI 320	(3)	Issues in Canadian Democracy
POLI 321	(3)	Issues: Canadian Public Policy
POLI 326	(3)	Provincial Politics
POLI 336	(3)	Le Québec et le Canada
POLI 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 316	(3)	Black Lives Matter and American Democracy
POLI 318	(3)	Comparative Local Government
POLI 325	(3)	U.S. Politics
POLI 328	(3)	Comparing European Democracies
POLI 329	(3)	Russian and Soviet Politics
POLI 330	(3)	Law and Courts in Europe
POLI 331	(3)	Politics in East Central Europe
POLI 339	(3)	Comparative Developed: Topics 1
POLI 357	(3)	Politics: Contemporary Europe
POLI 361	(3)	Political Participation in Comparative Perspective
POLI 419	(3)	Transitions from Communism
POLI 420*	(3)	Memory, Place, and Power
POLI 424	(3)	Media and Politics
POLI 425	(3)	Topics in American Politics
POLI 430	(3)	Politics of Art
POLI 431	(3)	Nations and States/Developed World
POLI 432	(3)	Selected Topics: Comparative Politics
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 475	(3)	Social Capital in Comparative Perspective
POLI 476	(3)	Religion and Politics
POLI 524	(3)	Seminar: Developed Areas

* Either POLI 420 or GEOG 420 but not both.

Comparative Politics - Developing Areas

POLI 227	(3)	Developing Areas/Introduction
POLI 319	(3)	Politics of Latin America
POLI 322	(3)	Political Change in South Asia
POLI 324	(3)	Developing Areas/Africa
POLI 338	(3)	Developing Areas/Topics 1
POLI 340	(3)	Developing Areas/Middle East
POLI 369	(3)	Politics of Southeast Asia
POLI 380	(3)	Contemporary Chinese Politics
POLI 381	(3)	Politics in Japan and South Korea
POLI 422	(3)	Developing Areas/Topics 2
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 450	(3)	Peacebuilding
POLI 473	(3)	Democracy and the Market
POLI 474	(3)	Inequality and Development
POLI 476	(3)	Religion and Politics
POLI 480	(3)	Contentious Politics
POLI 522	(3)	Seminar: Developing Areas

International Relations

POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 342	(3)	Canadian Foreign Policy
POLI 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 352	(3)	International Policy/Foreign Policy: Africa
POLI 353	(3)	Politics of the International Refugee Regime
POLI 354	(3)	Approaches to International Political Economy
POLI 359	(3)	Topics in International Politics 1
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 441	(3)	IPE: Trade
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 443	(3)	Intervention in World Politics
POLI 444	(3)	Topics in International Politics 2
POLI 445	(3)	International Political Economy: Monetary Relations
POLI 446	(3)	International Law and Politics of Human Rights
POLI 447	(3)	Political Economy of Multinationals
POLI 448	(3)	Gender and International Relations
POLI 449	(3)	Diplomacy in Practice
POLI 450	(3)	Peacebuilding
POLI 451	(3)	The European Union
POLI 452	(3)	Conflict Simulation
POLI 575	(3)	Seminar: International Politics

Political Theory

POLI 231	(3)	Introduction to Political Theory
POLI 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 368	(3)	Political Theory and Indigeneity.
POLI 433	(3)	History of Political/Social Theory 3
POLI 434	(3)	History of Political/Social Theory 4

POLI 459	(3)	Topics in Political Theory 2
POLI 470	(3)	Philosophy, Economy and Society
POLI 561	(3)	Seminar: Political Theory

Methods

POLI 210	(3)	Political Science Research Methods
POLI 311	(3)	Introduction to Quantitative Political Science
POLI 312	(3)	Intermediate Quantitative Political Science
POLI 313	(3)	Introduction to Qualitative Methods in Political Science
POLI 461	(3)	Advanced Quantitative Political Science

4.10.31 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: Psychology \(PSYC\)](#)
- [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.33: Psychology \(PSYC\)](#)

4.10.31.1 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.

4.10.31.2 Bachelor of Arts (B.A.) - Major Concentration Psychology (36 credits)

The Major Concentration Psychology does not provide sufficient undergraduate background to enable students to apply for membership in the Ordre des Psychologues du Québec, even once the additional graduate requirements of the Ordre have been completed. Students who are interested in practising psychology in Quebec are advised to also complete the Minor Concentration Behavioral Science.

Recommended Background for Quebec CEGEP Students

Students planning to apply to a Bachelor of 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 Arts students are required to complete BIOL 115 or BIOL 111 or BIOL 112 during their first year. Students who have completed one of Biology 101-301, 101-401, 101-911, or 101-921 in CEGEP are exempt from the Biology requirement.

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology
BIOL 115	(3)	Essential Biology
PSYC 100	(3)	Introduction to Psychology

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 exempt from PSYC 204 replace this course with 3 credits at the 300 level or above in Psychology (PSYC), Anthropology (ANTH), Linguistics (LING), or Sociology (SOCL).

Bachelor of Arts and Science students exempt from PSYC 204 replace this course with 3 credits in Psychology (PSYC) at the 300 level or above.

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

** Note: Students who wish to apply to the Honours program in Psychology must complete the required courses above apart from PSYC 305 in their U1 year to be eligible for admission. Students who have been exempted from PSYC 204 are advised to complete PSYC 305 in U1. All students must complete a minimum of 27 graded credits in U1 to be eligible for admission to the Honours program. For additional information about applying to Honours, please refer to the Honours program description.

Complementary Courses (18 credits)

18 credits selected as follows:

3 credits in Psychology from List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

3 credits in Psychology from List B - (Social, Health and Developmental Psychology)

6 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

List A - (Behavioural Neuroscience, Cognition and Quantitative Methods)

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition

PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 562	(3)	Measurement of Psychological Processes

List B - (Social, Health and Developmental Psychology)

PSYC 304	(3)	Child Development
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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

Unclassified Courses

Students may also select complementary courses from the research and topics courses below:

PSYC 395	(6)	Psychology Research Project 1
PSYC 450D1	(4.5)	Research Project and Seminar
PSYC 450D2	(4.5)	Research Project and Seminar
PSYC 488D1	(1.5)	Special Topics Seminar
PSYC 488D2	(1.5)	Special Topics Seminar
PSYC 492	(3)	Special Topics Seminar 1
PSYC 494D1	(4.5)	Psychology Research Project
PSYC 494D2	(4.5)	Psychology Research Project
PSYC 495	(6)	Psychology Research Project 2
PSYC 499	(1)	Reading Project

4.10.31.3 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".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

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 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 309	(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)	Theology of History
RELG 348	(3)	Classical Hinduism
RELG 387	(3)	Introduction to Jainism
RELG 388	(3)	Introduction to Sikhism

Themes in Religion, Culture, and Globalization

9 credits from:

ISLA 310	(3)	Women in Islam
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 326	(3)	Christians in the Roman World
RELG 332	(3)	Conversations Across World Religions
RELG 339	()	
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 and 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, Heritage, and Tourism
RELG 380	(3)	Religion, Philosophy, Modernity
RELG 444	(3)	Indian Ocean Religious Networks
RELG 451	(3)	Zen Buddhism: Poetry and Art
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.) - Joint Honours Component Religious Studies - Asian Religions (36 credits)

** This option is no longer offered. Please contact the School of Religious Studies about the Joint Honours in Religious Studies.**

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Asian Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3-6 credits from Core Courses on Religions of Asia

3 credits from Introductory Courses on Western Religions

3 credits from Advanced Theory Courses

9-12 credits from Themes in Religion, Culture and Globalization

15 credits from Religions of Asia

3-6 credits from Core Courses on Religions of Asia:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia

3 credits from Introductory Courses on Western Religions:

RELG 201	(3)	Religions of the Ancient Near East
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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

3 credits from Advanced Theory Courses:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

9-12 credits from Themes in Religion, Culture, and Globalization:

RELG 207	(3)	Introduction to the Study of Religions
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 309	(3)	World Religions and Cultures They Create
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2
RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 345	(3)	Religion and the Arts 1
RELG 347	(3)	Topics in Religion and the Arts
RELG 353	(3)	Gandhi: His Life and Thought
RELG 355	(3)	Religion and the Arts 2
RELG 358	(3)	Religion and Cinema in India
RELG 361	(3)	Religious Behaviour
RELG 366	(3)	Rivers, Religion, and Environment in South Asia
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	(0)	
RELG 378	(3)	Pilgrimage, Heritage, and Tourism
RELG 440	(3)	Global Islam
RELG 444	(3)	Indian Ocean Religious Networks
RELG 479	(3)	Christianity in Global Perspective
RELG 544	(3)	Ethnography as Method in Religious Studies
RELG 571	(3)	Ethics, Medicine and Religion
RELG 572	(3)	Religion and Global Politics

RELG 573 (3) Religions in Global Society

15 credits from Religions of Asia:

RELG 254 (3) Introduction to Yoga Traditions
 RELG 337 (3) Themes in Buddhist Studies
 RELG 339 ()
 RELG 342 (3) Theravada Buddhist Literature
 RELG 344 (3) Mahayana Buddhism
 RELG 348 (3) Classical Hinduism
 RELG 350 (3) Bhakti Hinduism
 RELG 352 (3) Japanese Religions: History and Thought
 RELG 354 (3) Chinese Religions
 RELG 356 (3) Gender and Sexuality in Hinduism
 RELG 369 (3) Tibetan Buddhism
 RELG 372 (3) Hindu Goddesses
 RELG 387 (3) Introduction to Jainism
 RELG 388 (3) Introduction to Sikhism
 RELG 442 (3) Pure Land Buddhism
 RELG 451 (3) Zen Buddhism: Poetry and Art
 RELG 452 (3) East Asian Buddhism
 RELG 453 (3) Vajrayana Buddhism
 RELG 454 (3) Modern Hindu Thought
 RELG 455 (3) Religion and the Performing Arts in South India
 RELG 545 (3) Ramayana: Multiple Lives
 RELG 546 (3) Indian Philosophy
 RELG 547 (3) Special Topics in Hinduism
 RELG 548 (3) Indian Buddhist Philosophy
 RELG 549 (3) Japanese Buddhism in Historical Context
 RELG 551 (3) Special Topics in Buddhism
 RELG 552 (3) Advaita Vedanta
 RELG 553 (3) Religions of South India 1
 RELG 554 (3) Religions of South Asia
 RELG 556 (3) Issues in Buddhist Studies
 RELG 558 (3) Indian Tantric Traditions
 RELG 559 (3) Caste and Dalits: Historical and Political Perspectives
 RELG 560 (3) Buddhist Poetry

Courses Offered by Other Units

Up to 6 credits of courses from other units may be chosen by Joint Honours students with prior approval from the Religious Studies Honours program adviser.

4.10.32.3 Bachelor of Arts (B.A.) - Joint Honours Component Religious Studies - Western Religions (36 credits)

** This option is no longer offered. Please contact the School of Religious Studies about the Joint Honours in Religious Studies.**

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Students in Joint Honours must maintain a program GPA and a CGPA of 3.00 (3.50 for First Class Honours) and attain a B- or higher in each program course. No overlap is allowed between the courses forming each segment of the Joint Honours program.

Students in Joint Honours Component Religious Studies choose either the Western Religions or Asian Religions option.

It is possible for students following either the Western Religions or the Asian Religions option of the Joint Honours Component Religious Studies to combine their program with the Joint Honours Component Philosophy and Western Religions as the Religious Studies program broadens the material included in the Philosophy and Western Religions program.

The requirements set out below pertain to the Western Religions option.

Complementary Courses (36 credits)

36 credits selected with the following specifications:

3-6 credits from Core Courses on Western Religions

3 credits from Introductory Courses on Religions of Asia

3 credits from Advanced Theory Courses

9-12 credits from Themes in Religion, Culture, and Globalization

15 credits from Western Religions

3 - 6 credits from Core Courses on Western Religions:

RELG 201	(3)	Religions of the Ancient Near East
RELG 202	(3)	Religion of Ancient Israel
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 210	(3)	Jesus of Nazareth

3 credits from Introductory Courses on Religions of Asia:

RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of East Asia
RELG 254	(3)	Introduction to Yoga Traditions
RELG 387	(3)	Introduction to Jainism

3 credits from Advanced Theory Courses:

RELG 456	(3)	Theories of Religion
RELG 555	(3)	Honours Seminar

9 - 12 credits from Themes in Religion, Culture, and Globalization:

RELG 207	(3)	Introduction to the Study of Religions
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality
RELG 309	(3)	World Religions and Cultures They Create
RELG 315	(3)	Special Topics in Religion 1
RELG 317	(3)	Special Topics in Religion 2

RELG 318	(3)	Special Topics in Religion 3
RELG 319	(3)	Special Topics in Religion 4
RELG 331	(3)	Religion and Globalization
RELG 332	(3)	Conversations Across World Religions
RELG 340	(3)	Religion and the Sciences
RELG 341	(3)	Introduction: Philosophy of Religion
RELG 347	(3)	Topics in Religion and the Arts
RELG 361	(3)	Religious Behaviour
RELG 370	(3)	Religion and Human Rights
RELG 371	(3)	Ethics of Violence/Non-Violence
RELG 375	(3)	Religion, Politics and Society
RELG 376	(3)	Religious Ethics
RELG 377	()	
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 and Interpretations
RELG 308	(3)	Ancient Bible Translations
RELG 310	(3)	Canadian Church History
RELG 311	(3)	Formation of the New Testament
RELG 312	(3)	The Gospels
RELG 313	(3)	Topics in Biblical Studies 1
RELG 314	(3)	Topics in Biblical Studies 2
RELG 322	(3)	Church and Empire to 1300
RELG 323	(3)	Church and State since 1300
RELG 324	()	
RELG 325	(3)	Varieties Religious Experience in Christianity
RELG 326	(3)	Christians in the Roman World
RELG 333	(3)	Principles of Theology
RELG 334	(3)	Theology of History
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 423	(3)	Reformation Thought
RELG 434	(3)	Advanced Theology
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.

4.10.33 Social Studies of Medicine (SSMD)

Social Studies of Medicine, the program, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.36: Social Studies of Medicine \(SSMD\)](#).

4.10.33.1 Bachelor of Arts (B.A.) - Minor Concentration Social Studies of Medicine (18 credits)

The Minor Concentration in Social Studies of Medicine presents as a complex network of institutions, cultures, and political relations embedded in the institutions, cultures and political relations of the larger society. Courses are divided into three groups: History of Medicine, Anthropology of Medicine, and Sociology of Medicine. The Minor consists of 18 credits. Students are required to take at least one course in each of the three groups.

Note: No overlap is permitted with courses counting towards the student's major concentration.

Complementary Courses (18 credits)

18 credits from the following (at least 3 credits from each of the three groups):

History of Medicine

HIST 249	(3)	Health and the Healer in Western History
HIST 319	(3)	The Scientific Revolution
HIST 335	(3)	Science and Medicine in Canada
HIST 356	(3)	Medicine in the Medieval West
HIST 381	(3)	Colonial Africa
HIST 424	(3)	Gender, Sexuality and Medicine
HIST 430	(3)	Topics in Modern Medicine
HIST 449	(3)	Medicine in the Ancient World
HIST 452	(3)	Topics in Pre-Modern Medicine
HIST 457	(3)	Topics in Medical History
HIST 558	(3)	Modern Medicine: Seminar
HIST 559	(3)	Modern Medicine: Research
HIST 567D1	(3)	Seminar: Medieval Medicine
HIST 567D2	(3)	Seminar: Medieval Medicine

Anthropology of Medicine

ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology

ANTH 314	(3)	Psychological Anthropology 01
ANTH 325	(3)	Anthropology of the Self
ANTH 407	(3)	Anthropology of the Body
ANTH 408	(3)	Sensory Ethnography
ANTH 423	(3)	Mind, Brain and Psychopathology
ANTH 438	(3)	Topics in Medical Anthropology
ANTH 480	(3)	Special Topic 5
ANTH 481	(3)	Special Topic 6

Sociology of Medicine

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 309	(3)	Health and Illness
SOCI 310	(3)	Sociology of Mental Disorder
SOCI 365	(3)	Health and Development
SOCI 390	(3)	Gender and Health
SOCI 508	(3)	Medical Sociology and Social Psychiatry
SOCI 515	(3)	Medicine and Society
SOCI 525	(3)	Health Care Systems in Comparative Perspective
SOCI 538	(3)	Selected Topics in Sociology of Biomedical Knowledge
SOCI 588	(3)	Biosociology/Biodemography

4.10.34 Sociology (SOCI)

The Department of Sociology, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.38: Sociology \(SOCI\)](#).

4.10.34.1 Bachelor of Arts (B.A.) - Minor Concentration Sociology (18 credits)

The purpose of the Minor Concentration Sociology is to give the student a basic understanding of the field of sociology. This Minor concentration may be expanded to the Major Concentration Sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

Complementary Courses (12 credits)

3 credits from the following:

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

9 credits of complementary courses chosen from the list of courses offered by the Sociology Department. At least 3 credits must be taken at the 300-level or higher.

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 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 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
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 and Citizenship
SOCI 424	(3)	Networks and Social Structures
SOCI 430	(3)	Sociology of Citizenship
SOCI 446	(3)	Colonialism and Society
SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 430	(3)	Sociology of Citizenship
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State

SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4.10.34.2 Bachelor of Arts (B.A.) - Major Concentration Sociology (36 credits)

The purpose of the Major Concentration Sociology is to give the student a comprehensive understanding of the field of sociology.

U1 Required Courses (6 credits)

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry

U2 Required Courses (6 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research

Complementary Courses (24 credits)

24 credits of complementary courses selected with the following specifications:

3 credits minimum at the 400 level or higher

9 credits maximum at the 200 level

500-Level Seminars:

Seminars at the 500 level are open to Major concentration students in their final year.

No more than 6 credits of the current problems, independent study and/or reading courses listed below may count toward the Major concentration.

SOCI 341	(3)	Current Problems in Sociology 02
SOCI 342	(3)	Independent Study 1
SOCI 343	(3)	Independent Study 2
SOCI 441	(3)	Current Problems in Sociology 03
SOCI 442	(3)	Independent Reading and Research 01
SOCI 443	(3)	Independent Reading and Research 02

Areas of Sociology

The Department of Sociology offers courses in four substantive areas of study:

Institutions, Deviance, and Culture

Politics and Social Change

Social Stratification: Class, Ethnicity, and Gender

Work, Organizations, and the Economy

The following lists indicate the courses which are included within each substantive area. Students should use these lists when selecting their complementary courses.

The 500-level seminars in each substantive area are open to social science Major concentration students in their final year and to Honours students. Minor concentration students may only register for these with the permission of the instructor.

Institutions, Deviance, and Culture

SOCI 213	(3)	Deviance
SOCI 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 388	(3)	Crime
SOCI 430	(3)	Sociology of Citizenship
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 and Citizenship
SOCI 424	(3)	Networks and Social Structures
SOCI 430	(3)	Sociology of Citizenship
SOCI 446	(3)	Colonialism and Society

SOCI 455	(3)	Post-Socialist Societies
SOCI 484	(3)	Emerging Democratic States
SOCI 495	(3)	Social Problems and Conflicts
SOCI 507	(3)	Social Change
SOCI 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 595	(3)	Immigration Control and The State

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 410	(3)	Urban Ethnography
SOCI 415	(3)	Education and Inequality
SOCI 430	(3)	Sociology of Citizenship
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology
SOCI 595	(3)	Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4.10.34.3 Bachelor of Arts (B.A.) - Joint Honours Component Sociology (36 credits)

The Joint Honours Component Sociology provides a greater focus on Sociology with substantial breadth and depth. The completion of a Joint Honours program is an asset when applying to graduate or profession schools.

Students wishing to study at the Honours level in two disciplines can combine Joint Honours program components in any two Arts disciplines. For a list of available Joint Honours programs, see "Overview of Programs Offered" and "Joint Honours Programs".

Students may register for Joint Honours at the beginning of their second year (U2).

Joint Honours students should consult an adviser in each department to discuss their course selection and their interdisciplinary research project (if applicable).

Joint Honours students must maintain a GPA of 3.50 in their program courses, and according to Faculty regulations, a minimum CGPA of 3.00 in general.

Required Courses (18 credits)

Note: Students who are exempted from SOCI 350 must replace it with another 300-level or higher sociology course.

SOCI 210	(3)	Sociological Perspectives
SOCI 211	(3)	Sociological Inquiry
SOCI 330	(3)	Sociological Theory
SOCI 350	(3)	Statistics in Social Research
SOCI 461	(3)	Quantitative Data Analysis
SOCI 480	(3)	Honours Project

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 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 388	(3)	Crime

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 and 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 513	(3)	Social Aspects HIV/AIDS in Africa
SOCI 519	(3)	Gender and Globalization
SOCI 545	(3)	Sociology of Population
SOCI 550	(3)	Developing Societies
SOCI 595	(3)	Immigration Control and The State

Social Stratification: Class, Ethnicity, and Gender

SOCI 227	(3)	Jews in North America
SOCI 230	(3)	Sociology of Ethnic Relations
SOCI 255	(3)	Gender and the State
SOCI 270	(3)	Sociology of Gender
SOCI 321	(3)	Gender and Work
SOCI 333	(3)	Social Stratification
SOCI 335	(3)	Sociology of Aging and the Life Course
SOCI 355	(3)	Rural Life in a Global Society
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 375	(3)	Suspect Minorities in Canada
SOCI 415	(3)	Education and Inequality
SOCI 475	(3)	Canadian Ethnic Studies Seminar
SOCI 510	(3)	Seminar in Social Stratification
SOCI 512	(3)	Ethnicity and Public Policy
SOCI 520	(3)	Migration and Immigrant Groups
SOCI 526	(3)	Indigenous Women's Health and Healthcare
SOCI 530	(3)	Sex and Gender
SOCI 555	(3)	Comparative Historical Sociology
SOCI 595	(3)	Immigration Control and The State

Work, Organizations, and the Economy

SOCI 235	(3)	Technology and Society
SOCI 304	(3)	Sociology of the Welfare State
SOCI 312	(3)	Sociology of Work and Industry
SOCI 325	(3)	Sociology of Science
SOCI 420	(3)	Organizations
SOCI 470	(3)	Topics in Economic Sociology

4.10.35 Sustainability, Science and Society

4.10.35.1 Location

Program website: mcgill.ca/sss

Program Director:

Graham MacDonald (*Associate Professor*)
 Department of Geography
 McGill University, Burnside Hall
 805 Sherbrooke Street West
 Montreal QC H3A 0B9 CANADA
 Telephone: 514-398-4828
 Email: graham.macdonald@mcgill.ca
 Website: mcgill.ca/geography/people-0/macdonald

4.10.35.2 About Sustainability, Science and Society

This program is a partnership between the Department of Geography and the Bieler School of Environment and is administered through Geography.

4.10.35.3 Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program in Sustainability, Science and Society (54 credits)

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrative knowledge and skills required to effectively understand and address this challenge in its multiple dimensions—scientific-technological, socio-economic, political-institutional, ethical, and human behavioural—and to chart a transition to sustainability. It is built upon three pillars: 1) Science and Technology, to provide an in-depth understanding of the underpinnings of the problems of concern along these dimensions; 2) Economics, Policy, and Governance, to understand how we can make the sustainability transition; and 3) Ethics, Equity, and Justice, to discuss why we need change, and the issues of equity and justice associated with taking action. This program is a partnership between Geography and the Bieler School of Environment and will be administered through Geography.

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 Courses (27 credits)

27 credits selected as follows:

3 credits of Statistics

3 credits of System Modelling tools

3 credits of Economics

18 credits selected from 3 areas

Statistics

3 credits of Statistics from the following:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
PSYC 204	(3)	Introduction to Psychological Statistics

System Modelling

3 credits of System Modelling tools from the following:

ESYS 301	(3)	Earth System Modelling
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation

Economics

3 credits of Economics from the following:

AGEC 333	(3)	Resource Economics
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics

18 additional credits of complementary courses chosen from three areas listed below:

Students must choose at least two courses from each area, and in total complete at least 9 credits at the 300 level or higher.

AREA 1: Methods: Observation, Analysis, Modelling, and Management

AGRI 435	(3)	Soil and Water Quality Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 544	(3)	Environmental Measurement and Modelling
ESYS 500	(3)	Earth System Applications
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 404	(3)	Environmental Management 2
GEOG 509	(3)	Qualitative Methods
GEOG 512	(3)	Advanced Quantitative Methods in Social Field Research
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 AGECE 200 or ECON 208, but not both.

** Students may select either AGECE 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
GEOG 520	(3)	Agriculture, Environment, and Food Security
HIST 292	(3)	History and the Environment
MGCR 360	(3)	Social Context of Business
MGPO 475	(3)	Strategies for Developing Countries
URBP 530	(3)	Urban Infrastructure and Services in International Context

2B: Ethics and Equity

ENVR 400	(3)	Environmental Thought
GEOG 382	(3)	Principles Earth Citizenship
MGPO 450	(3)	Ethics in Management
RELG 270	(3)	Religious Ethics and the Environment

AREA 3: Sustainability and Biophysical Processes

Note:

* Students select either BREE 217 or GEOG 322, but not both.

** Students select either BIOL 540 or ENVR 540, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 540**	(3)	Ecology of Species Invasions
BREE 217*	(3)	Hydrology and Water Resources
ENVB 410	(3)	Ecosystem Ecology
ENVR 540**	(3)	Ecology of Species Invasions
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 221	(3)	Environment and Health
GEOG 305	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 403	(3)	Global Health and Environmental Change
GEOG 470	(3)	Wetlands
GEOG 530	(3)	Global Land and Water Resources

GEOG 555	(3)	Ecological Restoration
NRSC 333	(3)	Pollution and Bioremediation

Students who wish to explore the following topics in more depth may select the courses listed below:

- 1) Climate Change: ESYS 200, ESYS 300, ESYS 500, GEOG 523, ATOC 214, ATOC 215
- 2) Land Resources, Food, Forests: AGECE 430, AGECE 442, AGRI 435, BIOL 308, BIOL 310, ENVB 410, GEOG 523, GEOG 530
- 3) Water Resources: AGRI 435, NRSC 540, BREE 217, GEOG 322, GEOG 372, GEOG 470, GEOG 530
- 4) Biodiversity: BIOL 308, BIOL 310, BIOL 540, ENVB 410, ENVR 540, GEOG 555
- 5) Human Health: GEOG 221, GEOG 303, GEOG 403
- 6) Development: GEOG 408, GEOG 410, ANTH 212

4.10.35.4 Bachelor of Arts and Science (B.A. & Sc.) - Honours in Sustainability, Science and Society (60 credits)

The grand challenge of the 21st century is sustainable well-being; that is, to improve human well-being while maintaining the Earth's life-support systems. This B.A. & Sc. program provides the interdisciplinary and integrative knowledge and skills required to effectively understand and address this challenge in its multiple dimensions—scientific-technological, socio-economic, political-institutional, ethical, and human behavioural - and to chart a transition to sustainability. It is built upon three pillars: 1) Science and Technology, to provide an in-depth understanding of the underpinnings of the problems of concern along these dimensions; 2) Economics, Policy, and Governance, to understand how we can make the sustainability transition; and 3) Ethics, Equity, and Justice, to discuss why we need change, and the issues of equity and justice associated with taking action. This program is a partnership between Geography and the Bieler School of Environment and will be administered through Geography.

The Honours program allows students to pursue a research project with the supervision of a McGill University faculty member, leading to an honours thesis. Applicants must have a minimum program GPA (GPA of all required and complementary courses taken at McGill) of 3.3 to enter the Honours program. Students must earn a B grade (3.0) or higher for the Honours Research course (ENVR 495, 6 credits). 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. Honours students need to identify a supervisor, an honours project, and register in ENVR 495. Honours students are encouraged to participate in 500-level seminars with graduate students.

Required Courses (33 credits)

33 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

Honours Required Courses

6 credits

Note: Students either take 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

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 Courses (27 credits)

27 credits selected as follows:

3 credits of Statistics

3 credits of System Modelling tools

3 credits of Economics

18 credits selected from 3 areas

Statistics

3 credits of Statistics from the following:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
PSYC 204	(3)	Introduction to Psychological Statistics

System Modelling

3 credits of System Modelling tools from the following:

ESYS 301	(3)	Earth System Modelling
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation

Economics

3 credits of Economics from the following:

AGEC 333	(3)	Resource Economics
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics

18 additional credits of complementary courses chosen from three areas listed below:

Students must choose at least two courses from each area, and in total complete at least 9 credits at the 300 level or higher.

AREA 1: Methods: Observation, Analysis, Modelling, and Management

AGRI 435	(3)	Soil and Water Quality Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 544	(3)	Environmental Measurement and Modelling
ESYS 500	(3)	Earth System Applications
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 351	(3)	Quantitative Methods
GEOG 404	(3)	Environmental Management 2

GEOG 509	(3)	Qualitative Methods
GEOG 523	(3)	Global Ecosystems and Climate
URBP 506	(3)	Environmental Policy and Planning

AREA 2: 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 AGECE 200 or ECON 208, but not both.

** Students may select either AGECE 201 or ECON 209, but not both.

AGECE 200*	(3)	Principles of Microeconomics
AGECE 201**	(3)	Principles of Macroeconomics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 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
MGPO 475	(3)	Strategies for Developing Countries
URBP 530	(3)	Urban Infrastructure and Services in International Context

2B: Ethics and Equity

ENVR 400	(3)	Environmental Thought
GEOG 382	(3)	Principles Earth Citizenship
MGPO 450	(3)	Ethics in Management
RELG 270	(3)	Religious Ethics and the Environment

AREA 3: Sustainability and Biophysical Processes

Note:

* Students select either BREE 217 or GEOG 322, but not both.

** Students select either BIOL 540 or ENVR 540, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 540**	(3)	Ecology of Species Invasions
BREE 217*	(3)	Hydrology and Water Resources
ENVB 410	(3)	Ecosystem Ecology
ENVR 540**	(3)	Ecology of Species Invasions
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 221	(3)	Environment and Health
GEOG 305	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 403	(3)	Global Health and Environmental Change
GEOG 470	(3)	Wetlands
GEOG 530	(3)	Global Land and Water Resources
GEOG 555	(3)	Ecological Restoration
NRSC 333	(3)	Pollution and Bioremediation

Students who wish to explore the following topics in more depth may select the courses listed below:

- 1) Climate Change: ESYS 200, ESYS 300, ESYS 500, GEOG 523, ATOC 214, ATOC 215
- 2) Land Resources, Food, Forests: AGEC 430, AGEC 442, AGRI 435, BIOL 308, BIOL 310, ENVB 410, GEOG 523, GEOG 530
- 3) Water Resources: AGRI 435, NRSC 540, BREE 217, GEOG 322, GEOG 372, GEOG 470, GEOG 530
- 4) Biodiversity: BIOL 308, BIOL 310, BIOL 540, ENVB 410, ENVR 540, GEOG 555
- 5) Human Health: GEOG 221, GEOG 303, GEOG 403
- 6) Development: GEOG 408, GEOG 410, ANTH 212

4.10.36 World Islamic and Middle East Studies (ISLA)

World Islamic and Middle East Studies, the programs, and specific courses are described in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.24.2: World Islamic and Middle East Studies \(ISLA\)](#).

4.10.36.1 Bachelor of Arts (B.A.) - Minor Concentration Arabic Language (18 credits)

The Minor Concentration in Arabic Language provides students with comprehensive training in listening, speaking, reading, and writing in Arabic.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Arabic language (3 levels) from the list below.

In the case of Introductory Arabic (9 credits), the extra 3 credits will be counted as electives.

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic

ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(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 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 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 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

4.10.36.4 Bachelor of Arts (B.A.) - Minor Concentration Urdu Language (18 credits)

The Minor Concentration in Urdu Language provides students with comprehensive training in listening, speaking, reading, and writing in Urdu.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/mes/>.

This program may be expanded to the Major Concentration in World Islamic and Middle East Studies.

Complementary Courses

18 credits of Urdu language (3 levels) from the list below.

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2
ISLA 555	(3)	Urdu Poetry

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 languages, textual traditions, and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program’s website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (18 credits)

18 credits of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits at the 100-/200 level, in non-language ISLA courses;

6 credits at the 300 level, in non-language ISLA courses;

9 credits at any level. If non-language courses are selected, no more than 6 credits overall at the 100-200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

ISLA 100/200-Level

3 credits from:

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi

ISLA 300 Level and Higher

6 credits from:

ISLA 310	(3)	Women in Islam
ISLA 315	(3)	Ottoman State and Society to 1839
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 325	(3)	Introduction to Shi’i Islam

ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic

ISLA Courses

ISLA 199	(3)	FYS: Narrations of the Middle East
ISLA 200	(3)	Islamic Civilization
ISLA 210	(3)	Muslim Societies
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature
ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval

ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 499	(3)	World Islamic and Middle East Studies Internship
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
HIST 240	(3)	Modern History of Islamic Movements
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 366	(3)	History of Zionism
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 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

4.10.36.6 Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)

World Islamic and Middle East Studies is an interdisciplinary program focusing on Muslim cultures and societies both past and present. Recognizing the variety of approaches within Islam, its global reach, but also its regional specificities, and that of the Middle East in particular, the program aims at providing students with training in the textual traditions and social life of Muslims across different times and places.

For information about instructors and course descriptions, visit the program's website at <http://www.mcgill.ca/islamicstudies/>.

Complementary Courses (36 credits)

12-15 credits (2 levels) in one language: Arabic, Persian, Turkish, or Urdu. In the case of Arabic, the first two levels involve 15 credits. The extra 3 credits will be counted toward the remainder of the complementary courses requirement.

21-24 credits (21 if Introductory Arabic has been chosen), of complementary courses selected from the World Islamic and Middle East Studies course lists as follows:

3 credits of 100-/200-level non-language ISLA courses;

6 credits of 300-level non-language ISLA courses;

6 credits of 400-/500-level non-language ISLA courses;

6-9 credits at any level, including more language courses, but no more than 6 credits overall at the 100/200 level. Students might fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Languages (12-15 credits)

Arabic

ISLA 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Persian

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Turkish

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish
ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Urdu

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1

ISLA 554 (3) Advanced Urdu-Hindi 2

ISLA 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 315 (3) Ottoman State and Society to 1839
 ISLA 325 (3) Introduction to Shi'i Islam
 ISLA 330 (3) Islamic Mysticism: Sufism
 ISLA 340 (3) Islamic Law and Human Rights
 ISLA 345 (3) Science and Civilization in Islam
 ISLA 350 (3) From Tribe to Dynasty
 ISLA 355 (3) Modern History of the Middle East
 ISLA 360 (3) Islam and Politics
 ISLA 370 (3) The Qur'an: History and Interpretation
 ISLA 380 (3) Islamic Philosophy and Theology
 ISLA 383 (3) Central Questions in Islamic Law
 ISLA 385 (3) Poetics and Politics in Arabic Literature
 ISLA 388 (3) Persian Literature
 ISLA 392 (3) Arabic Literature as World Literature

ISLA 400-/500-Level

6 credits from:

ISLA 410 (3) History: Middle-East 1798-1918
 ISLA 411 (3) History: Middle-East 1918-1945
 ISLA 415 (3) Modern Iran: Anthropological Approach
 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
HIST 240	(3)	Modern History of Islamic Movements
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
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 307	(3)	Bible, Quran and Interpretations
RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

4.10.36.7 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 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

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 221D1	(4.5)	Introductory Arabic
ISLA 221D2	(4.5)	Introductory Arabic
ISLA 322	(6)	Lower Intermediate Arabic
ISLA 322D1	(3)	Lower Intermediate Arabic
ISLA 322D2	(3)	Lower Intermediate Arabic
ISLA 423D1	(3)	Higher Intermediate Arabic
ISLA 423D2	(3)	Higher Intermediate Arabic
ISLA 524	(3)	Advanced Arabic 1
ISLA 525	(3)	Advanced Arabic 2

Persian

ISLA 241D1	(3)	Introductory Persian
ISLA 241D2	(3)	Introductory Persian
ISLA 342D1	(3)	Lower Intermediate Persian
ISLA 342D2	(3)	Lower Intermediate Persian
ISLA 443D1	(3)	Upper Intermediate Persian
ISLA 443D2	(3)	Upper Intermediate Persian
ISLA 545	(3)	Advanced Persian 1
ISLA 546	(3)	Advanced Persian 2

Turkish

ISLA 232D1	(3)	Introductory Turkish
ISLA 232D2	(3)	Introductory Turkish
ISLA 333D1	(3)	Lower Intermediate Turkish
ISLA 333D2	(3)	Lower Intermediate Turkish
ISLA 434D1	(3)	Higher Intermediate Turkish

ISLA 434D2	(3)	Higher Intermediate Turkish
ISLA 535D1	(3)	Advanced Turkish
ISLA 535D2	(3)	Advanced Turkish

Urdu

ISLA 251D1	(3)	Introductory Urdu-Hindi
ISLA 251D2	(3)	Introductory Urdu-Hindi
ISLA 352D1	(3)	Intermediate Urdu-Hindi
ISLA 352D2	(3)	Intermediate Urdu-Hindi
ISLA 553	(3)	Advanced Urdu-Hindi 1
ISLA 554	(3)	Advanced Urdu-Hindi 2

ISLA 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 315	(3)	Ottoman State and Society to 1839
ISLA 325	(3)	Introduction to Shi'i Islam
ISLA 330	(3)	Islamic Mysticism: Sufism
ISLA 340	(3)	Islamic Law and Human Rights
ISLA 345	(3)	Science and Civilization in Islam
ISLA 350	(3)	From Tribe to Dynasty
ISLA 355	(3)	Modern History of the Middle East
ISLA 360	(3)	Islam and Politics
ISLA 370	(3)	The Qur'an: History and Interpretation
ISLA 380	(3)	Islamic Philosophy and Theology
ISLA 383	(3)	Central Questions in Islamic Law
ISLA 385	(3)	Poetics and Politics in Arabic Literature
ISLA 388	(3)	Persian Literature
ISLA 392	(3)	Arabic Literature as World Literature

ISLA 400-/500-Level

3 credits from:

ISLA 410	(3)	History: Middle-East 1798-1918
ISLA 411	(3)	History: Middle-East 1918-1945
ISLA 415	(3)	Modern Iran: Anthropological Approach
ISLA 420	(3)	Indo-Islamic Civilization: Medieval

ISLA 421	(3)	Islamic Culture - Indian Subcontinent
ISLA 430	(3)	Islamdom: Baghdad to Cordoba
ISLA 488	(3)	Tales of Wonder-Islamic World
ISLA 502	(3)	Art in the Age of Empires
ISLA 505	(3)	Islam: Origin and Early Development
ISLA 506	(3)	Islam: Later Developments
ISLA 512	(3)	Art of the Ottoman Empire
ISLA 515	(3)	The Medieval School in Islam
ISLA 516	(3)	Medieval Islam, 13th-15th Century
ISLA 526	(3)	Colloquial Arabic
ISLA 555	(3)	Urdu Poetry
ISLA 585	(3)	Arab Women's Literature

3-6 credits at any level, including ISLA 499, or more language courses (from the language lists above), but no more than 6 credits overall of at the 200 level. Students may fulfill these credits by taking complementary courses from other departments listed as relevant to the program.

Non-ISLA Courses

ANTH 327	(3)	Anthropology of South Asia
HIST 240	(3)	Modern History of Islamic Movements
HIST 341	(3)	Themes in South Asian History
HIST 435	(3)	Topics in South Asian History
HIST 591D1	(3)	Modern Middle East History
HIST 591D2	(3)	Modern Middle East History
JWST 220D1	(3)	Introductory Hebrew
JWST 220D2	(3)	Introductory Hebrew
JWST 261	(3)	History of Jewish Philosophy and Thought
JWST 320D1	(3)	Intermediate Hebrew
JWST 320D2	(3)	Intermediate Hebrew
JWST 323	(3)	The Israeli Novel
JWST 338	(3)	Jewish Philosophy and Thought 2
JWST 340D1	(3)	Advanced Hebrew
JWST 340D2	(3)	Advanced Hebrew
JWST 366	(3)	History of Zionism
JWST 367	(3)	Hebrew through Israeli Cinema
JWST 368	(3)	A Taste of Hebrew Literature
JWST 369	(3)	History of the Hebrew Language
JWST 370	(3)	Israeli Popular Culture
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 307	(3)	Bible, Quran and Interpretations

RELG 309	(3)	World Religions and Cultures They Create
RELG 573	(3)	Religions in Global Society

5 Faculty of Education

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.

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.

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: mcgill.ca/library

5.3.2 Education Undergraduate Society (EdUS)

The EdUS is the voice for undergraduate students within the Faculty, with its primary purpose being to serve and to inform the students. It also seeks to unify students through sponsorship of activities such as:

- career placement;
- student orientation;
- participation in teachers' conventions;
- library donations;
- the organization of the annual *Education Career Fair*.

Other activities include assigning lockers to students, selling merchandise at the EdUS office, coordinating the Graduation Ball, as well as fundraising and events throughout the academic year. Students are encouraged to participate and make their opinions known. The Society Office is located in Room B179 of the Education Building.

Telephone: 514-398-7048

Fax: 514-398-2476

Email: admin.edus@mail.mcgill.ca

Website: edusmcgill.com

Facebook: www.facebook.com/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. 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 inside the Education Computer Lab (Room 328). Students, faculty and staff may borrow:

Available equipment

Laptops and tablets	Webcam/audio system conferencing kits
Data projectors	Portable public address systems
Video cameras	Tripods
Microphones and cables	Small portable mixers
PC data projector adaptors	Mac data projector adaptors
iPad adaptors	Bullhorn
Digital still cameras	Digital audio recorders
Portable document cameras	Document cameras on carts for Education classroom use
Cables and connectors for most applications	Extension cords and power bars

You can send in an equipment reservation request using the *Reservation Request Form*, or visit the Lab in person or call 514-398-6954. Note that the online AV reservation form does not guarantee a reservation; please wait for an email confirmation of the reservation.

For information about our hours of operation, please consult mcgill.ca/education/technology (under "Education Computer Lab & Audiovisual Loan Service").

ICS McGill Central Audiovisual Equipment Loan Services

Audiovisual equipment loan services are also available centrally through [ICS Audiovisual](#).

5.3.4 McGill Career Planning Service (CaPS)

Refer to [University Regulations and 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: Lara Franko
 Telephone: 514-398-2484
 Email: career.education@mcgill.ca
 Website: mcgill.ca/isa

5.3.5 McGill Journal of Education

The *McGill Journal of Education/Revue des sciences de l'éducation de McGill* is an open-access, online journal that is published three times a year: Winter, Spring, and Fall. It includes work in English and French from local, national, and international contexts. The *MJE* publishes peer-reviewed research articles and essays, as well as non-peer-reviewed (editorial) notes from the field, discussion forums, and book reviews. It is concerned with major issues in formal, non-formal, and incidental teaching and learning from a variety of perspectives, practical and theoretical, personal and collective. Its policy is to bring new ideas and research into a context open to teacher educators and scholars, as well as to parents, teachers, popular educators, community workers, and administrators.

Editor-in-Chief: Teresa Strong-Wilson
 Associate Editors: Anila Asghar, Vincent Boutonnet, Mindy Carter, Jérôme St-Amand and Lisa Starr
 Managing Editor: Sylvie Wald

McGill Journal of Education
 Faculty of Education
 3700 McTavish Street, Room 346
 Montreal QC H3A 1Y2
 Telephone: 514-398-4246
 Website: mje.mcgill.ca

5.3.6 A.S. Lamb Learning Centre

The A.S. Lamb Learning Centre, consisting of the computer laboratory and the reading room, is located on the second floor of the Sir Arthur Currie Memorial Gymnasium. The computer lab houses 28 desktop PCs with audiovisual equipment, connected to the McGill network. The lab is available for courses, workshops, and individual walk-in use by students and staff (except when reserved for classes). To reserve the PC Lab, please email sanjeev.panigrahy@mcgill.ca with dates and times, and be sure to include any special software needs well in advance of reserved class time. There is a charge for laser printing through the uPrint service.

Chief LAN Tech.: Mr. Sanjeev Panigrahy
 Location: McGill Sports Complex, Room 207A
 475 Pine Avenue West
 Website: mcgill.ca/edu-kpe/facilities/asllc

Hours

Monday to Friday	09:00–16:00
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5.3.7 Internships & Student Affairs Office (ISA)

The Internships and Student Affairs Office (ISA) in the Faculty of Education is responsible for the planning and implementation of the practice teaching component of undergraduate (B.Ed) and graduate (MATL) Teacher Education programs, as well as career advising and undergraduate student affairs. Student Affairs includes:

- student records;
- registration;
- general academic information and advice on undergraduate program and degree requirements;
- course change;
- withdrawal;

- supplemental and deferred exams;
- rereads;
- Academic Standing;
- interfaculty transfer;
- readmission;
- study away;
- scholarships and awards;
- graduation;
- teacher certification.

At McGill, ISA works closely with students, departments, and other faculties, as well as externally in close partnership with schools, boards, and the larger community.

Office: Education Building, Room 243
 Telephone: 514-398-7042 (Student Affairs); 514-398-7046 (Student Teaching Placement Coordinators)
 Fax: 514-398-4679
 Email: isa.education@mcgill.ca
 Website: mcgill.ca/isa

5.3.8 Faculty Institutes, Offices, and Centres

5.3.8.1 The Institute for Human Development and Well-Being

The Institute for Human Development and Well-Being (IHDW) is a newly formed research institute led by the Faculty of Education that encourages a transdisciplinary and multidisciplinary approach to the study of human development and well-being.

It works across three main axes:

- human development across the life span;
- the role of family, community, and schools in supporting human development and well-being;
- social policy and planning in relation to children and youth.

Director: Dr. Claudia Mitchell (*James McGill Professor*)
 Email: claudia.mitchell@mcgill.ca
 Website: mcgill.ca/ihdw

5.3.8.2 The International Centre for Youth Gambling Problems and High-Risk Behaviors

McGill University's International Centre for Youth Gambling Problems and High-Risk Behaviors has been attempting to identify and understand the underlying determinants and critical factors related to youth gambling problems and their relationship with other adolescent addictive and high-risk behaviours. The ongoing research efforts conducted by Drs. Derevensky and Gupta, along with their graduate students, have been crucial in helping to identify the determinants placing youth at risk for gambling problems, and in the development of empirically based treatment and prevention programs. Of importance has been the Centre's role in impacting public health and social policy in an effort to reduce and minimize the harms associated with excessive, problematic gambling.

Director: Dr. Jeffrey Derevensky
 Website: youthgambling.com

5.3.8.3 The Research Centre for Physical Activity and Health

The Research Centre for Physical Activity and Health brings together specialists from different areas of research to investigate the implications of physical activity on health and well-being. The Centre's researchers examine physiological, neuromechanical, or behavioural aspects of physical activity and healthy living, in an attempt to bridge the gap between basic sciences (e.g., cellular physiology) and applied sciences (e.g., clinical exercise physiology) through multidisciplinary research.

Director: Dr. Dennis Jensen
 Website: mcgill.ca/path

5.4 About the Faculty of Education (Undergraduate)

5.4.1 Location

3700 McTavish Street
Montreal QC H3A 1Y2
Canada
Telephone: 514-398-7042
Fax: 514-398-4679
Email: info@education.mcgill.ca
Website: mcgill.ca/education

5.4.2 Department of Integrated Studies in Education

The Department of Integrated Studies in Education (DISE) offers undergraduate programs that are committed to the preparation of exceptional teachers for work in elementary and secondary schools. We have four-year Bachelor of Education programs for CEGEP graduates and five-year programs for out-of-province students. In addition, we can accommodate students with completed or partly completed degrees in other disciplines.

The Department offers:

- Bachelor of Education Secondary English
- Bachelor of Education Secondary Mathematics
- Bachelor of Education Secondary Science & Technology
- Bachelor of Education Secondary Social Sciences
- Concurrent Bachelor of Music and Bachelor of Education in Music (Music Education)
- Bachelor of Education Kindergarten and Elementary Education
- Bachelor of Education Kindergarten and Elementary Education First Nations and Inuit Studies
- Bachelor of Education Kindergarten and Elementary Education Jewish Studies
- Bachelor of Education Kindergarten and Elementary Pédagogie de l'immersion française (PIF) [French Immersion]
- Bachelor of Education Teaching English as a Second Language
- Programs for First Nations and Inuit

For more information and full program details, refer to the Department of [section 5.8.2: Integrated Studies in Education](#).

5.4.3 Department of Educational and Counselling Psychology

The Department of Educational and Counselling Psychology (ECP) is committed to the advancement of scientific knowledge through research and practice in education and psychology. ECP addresses cognition and development in typical and atypical populations across the lifespan. Broadly speaking, researchers examine issues pertaining to assessment and intervention; cognitive processes and developmental neuroscience; and the design and evaluation of learning environments and instructional practices.

The Department offers:

- Minor concentrations for undergraduate students

For more information and full program details, refer to the Department of [section 5.8.1: Educational and Counselling Psychology](#).

5.4.4 Department of Kinesiology and Physical Education

The mission of the Department of Kinesiology and Physical Education (KPE) is to generate, advance, and disseminate knowledge about human health and physical activity, and to prepare professionals to engage in related employment.

The Department offers:

- Bachelor of Education Major in Physical and Health Education
- Bachelor of Science (Kinesiology) Major and Honours
- Minor in Kinesiology for Bachelor of Science students

For more information and full program details, refer to the Department of [section 5.8.4: Kinesiology and Physical Education](#).

5.4.5 Administrative Officers

Dean

Dilson Rassier; B.P.E.(Fed. de Pelotas), M.Sc.(UFRGS), Ph.D.(Calg.)

Associate Deans

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Montr.) (*Academic Programs*)

Marta Kobiela; B.S., M.S. (Texas), Ph.D.,(Vanderbilt) (*Infrastructure*)

Nancy L. Heath; B.A.(McG.), M.Ed.(Ott.), Ph.D.(Tor.) (*Research and Innovation*)

Unit Heads

Julie Côté; B.Sc., M.Sc.(Wisc. Madison), Ph.D.(Montr.) – *Chair, Kinesiology and Physical Education*

Victoria Talwar; M.A. (St. Andrews), Ph.D. (Queen's) – *Chair, Educational and Counselling Psychology*

Steven Jordan; B.A.(Kent), M.Sc.(Lond.), Ph.D.(McG.) – *Chair, Integrated Studies in Education*

Director, Internships and Student Affairs

Lisa Starr; B.Ed.(Regina), M.A.(Phoenix), Ph.D.(Vic., BC)

Internships and Student Affairs Officer

TBA

Senior Manager, Finance and Resource Planning

Daniela Frischer

Senior Advisor to the Dean

Allyson Noftall

Human Resources Advisor

Simona Lupu

Administrative Assistant

Degane Sougal

Building Director

Vanessa Bridgman

Patricia Jackson (*Deputy Building Director*)

Marketing and Communications Officer

Andee Schuster

Associate Director Development

Rayna Goldman

5.5 Overview of Faculty Programs

The Faculty of Education offers three different kinds of programs.

Undergraduate Programs: The Faculty offers programs leading to the Bachelor of Education (B.Ed.) degree that can lead to teacher certification, a Bachelor of Arts - Education (B.A.(Education)) degree with a Major in Education in Global Contexts, and a Bachelor of Science (B.Sc.) – Kinesiology degree.

Programs of Professional Development: For qualified teachers wishing to enhance their knowledge and skills, the Faculty offers programs of professional development leading to specialized certificates and diplomas. Most courses that are required to complete these programs are offered in the evenings and in the summer.

Graduate Programs: The Faculty offers graduate programs for those already holding a university degree who wish to pursue advanced study and research leading to master's and doctoral degrees in various fields of education and psychology. A new Master of Arts in Teaching and Learning, which leads to teacher certification, is also offered; more information is available at mcgill.ca/dise/grad.

Undergraduate programs of initial teacher education are described below in [section 5.5.1: Undergraduate Education Programs](#); programs of professional development are described in the [School of Continuing Studies section](#); and graduate programs are described in the [Graduate and Postdoctoral Studies section](#).

5.5.1 Undergraduate Education Programs

The Faculty of Education offers the following undergraduate programs. Details of each program may be found in this publication under the headings of the appropriate department.

All Bachelor of Education programs have been accredited by the *Comité d'agrément des programmes de formation à l'enseignement* (CAPFE).

The credit weights given are for students who have completed a Quebec CEGEP degree, or have been granted 30 credits of Advanced Standing. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing their degree must also complete a minimum of 30 credits of Freshman courses (in addition to the 90-credit or 120/137-credit program) for a total of 120 credits (B.A.(Education), B.Sc.(Kinesiology)) or 150/167 credits (B.Ed.).

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 5.8.2.13: 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 5.8.2.14.1: B.Ed. Kindergarten and Elementary Program \(Jewish Studies Option\)](#), offered by the Department of Integrated Studies in Education.

[section 5.8.2.15: 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 5.8.2.17: 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 et de l'Enseignement supérieur*), 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 5.8.2.10: Bachelor of Arts\(Education\) - Major Education in Global Contexts \(90 credits\)](#), offered by the Department of Integrated Studies in Education.

The program focuses on understanding the role of education in addressing contemporary and emergent global challenges. Students will take the concepts of teaching and learning outside of the classroom environment, exploring subject areas in sociology, psychology, leadership studies, history, philosophy, and public policy. Students will benefit from examining the world through an international scope and learning to problem-solve using the foundation of educational principles and hands-on experiences through a semester-long internship. Designed for anyone who wishes to take on the role of educator in non-traditional contexts: in non-profit, government, business, and other career sectors.

[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.A.(Education)**, B.Sc.(Kinesiology), or **Concurrent B.Mus. and B.Ed.** programs, refer to the Undergraduate Admissions Guide, found at 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.

5.5.1.1.1 CASPer Test Requirement for B.Ed. Kindergarten/Elementary, Secondary, TESL, and Music Programs

All applicants to the following Bachelor of Education (B.Ed.) Programs, in the Department of Integrated Studies in Education (DISE), Faculty of Education, McGill University are required to complete an online assessment, CASPer® takecasper.com/about-casper/, to be eligible for admission:

- B.Ed. in Kindergarten and Elementary Education (except the First Nations and Inuit Education (FNIE) option)
- B.Ed. in Secondary Education (all profiles)
- B.Ed. in Teaching English as a Second Language (all options)
- B.Ed. in Music (except applicants to the Concurrent B.Mus/B.Ed. program).

Students can apply to these programs without having registered for or taken the CASPer Test; however, it is expected that they will eventually register for and take the test before admissions decisions are made.

Students applying to B.Ed. Physical and Health Education **do not** have the CASPer Test admission requirement.

More information on the CASPer test requirement can be found at mcgill.ca/dise/files/dise/casper_bed_9oct2020.pdf.



Note: Special, Visiting, and Exchange applicants are exempted from this requirement.

For information about interfaculty transfers or readmission, see [University Regulations and Resources > Undergraduate > Registration > section 1.3.6: Interfaculty Transfer](#) or [section 1.3.10: Readmission](#), as well as information posted on the Internships and Student Affairs Office website: mcgill.ca/isa/student.

5.5.1.1.2 Language Requirement for Applicants to B.Ed. TESL Program

The application process for the B.Ed. TESL program involves several steps. Students first apply to the University indicating their program choice. Those whose academic record meets minimum program requirements will be informed by the University that they are being considered for admission to the B.Ed. TESL program. Students being considered will need to pass written and oral English language proficiency tests as a further admission requirement, and will be contacted by email with information about how to make arrangements to take the test.

5.5.1.2 Credit Requirements

The Bachelor of Education (B.Ed.) 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 Bachelor of Arts (Education) (B.A.(Education) - Education in Global Contexts and Bachelor of Science (Kinesiology) (B.Sc.) – Kinesiology are 90-credit programs. 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.A.(Education) or B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

Students entering the five-year B.Ed., or four-year B.A.(Education) degree or B.Sc.(Kinesiology) degree are in Year 0 and are required to complete the Freshman requirements applicable to their program.

Students who have completed previous university studies may be awarded transfer credits for their coursework. This can only be determined after the formal application and all necessary supporting documents have been received by Enrolment Services. A minimum of 60 credits must be completed while in residence at McGill University in order to be eligible for a degree. Transfer credits for courses taken more than five (5) years before the time of admission are not permitted in subjects where there have been substantial content changes, nor in any pedagogy courses specific to the Quebec K-11 curriculum. Courses more than five (5) years old in other subject areas may be considered on an individual subject basis by the Program Director. For more details, see the *Undergraduate Admissions Guide*, found at mcgill.ca/applying.

5.5.1.3 Quebec Teacher Certification

Teacher Certification in Quebec is the responsibility of the [Quebec Ministry of Education](#). Students who complete requirements for the Bachelor of Education degree and who meet the Ministry requirements (specified below) are recommended by the University for certification.

Language Proficiency

Fluency (oral and written) in the language of instruction is a requirement for all those seeking certification.

Confidential declaration concerning judicial record

In June 2005, the National Assembly of Quebec adopted an Act amending the Education Act and the Act respective of private education. The amendments concern the verification of judicial antecedents of persons holding or applying for a permit to teach in the youth, adult, and vocational sectors. Anyone seeking teacher certification in the Province of Quebec is required to submit a confidential declaration concerning their judicial record to the Minister of

Education. This document is available on the [Ministry website](#) at education.gouv.qc.ca/en/contenus-communs/teachers/teaching-authorizations/application-for-a-teaching-licence/.

Teacher Certification

All graduates of the Bachelor of Education Teacher Education programs (Canadian citizens, permanent residents or international Students) may apply for a permanent Teaching Diploma (*Brevet*) immediately upon graduation).

All students graduating from a B.Ed. program are required to submit the documents to apply for a provincial Teaching Diploma or Permit by the approved deadline. For more information on how and when to apply for teacher certification, visit the [ISA website](#).

Individuals with a Quebec teaching license who wish to teach in another province or country must first apply for and receive their Teacher Certification in Quebec before applying directly to the Teacher Certification Agency in the other relevant province or country. It is recommended that applicants intending to teach outside of Quebec obtain information beforehand concerning the requirements for certification.

Teachers from other provinces or countries who wish to teach in Quebec must apply to the Ministry of Education. Consult the Ministry's guides and forms, available at www.education.gouv.qc.ca/en/teachers/teaching-in-quebec/teaching-authorizations.

5.5.1.3.1 International Students

In addition to the CAQ and Study Permit, international students in Bachelor of Education programs must hold a valid "Internship/Co-op Work Permit" issued by Citizenship and Immigration Canada as a requirement for the mandatory Field Experiences. Applicants require a medical exam completed by a CIC-certified physician. Failure to do the medical exam will result in a remark that prohibits students from working in primary or secondary schools on their work permit. Consult International Student Services for more information: mcgill.ca/internationalstudents/work/work-permits/co-opinternship-work-permit.

International students who are applying for the permanent Quebec Teaching Diploma as described above must hold a different type of temporary permit; most commonly the "Post-Graduation Work Permit" or a study permit (if pursuing further formal education post-graduation). For more information, see mcgill.ca/internationalstudents/work/work-permits/post-graduation-work-permit.

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 Relationships, Diversity & Sexuality

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:* ecpcont.education@mcgill.ca; *Current students:* ecpcont.education@mcgill.ca
 Website: mcgill.ca/edu-ecp

5.5.2.2 Department of Integrated Studies in Education

The Office of First Nations and Inuit Education (OFNIE): The Faculty of Education collaborates with various Indigenous communities and institutions offering programs whose courses are given either at McGill or off campus. In collaboration with the Kativik Ilisarniliriniq, the Cree School Board, the Kahnawà:ke Education Centre, and various other Indigenous communities in Quebec, OFNIE delivers field-based teacher education programs leading to initial teacher certification and to the Bachelor of Education for Certified Teachers or the Bachelor of Education Kindergarten/Elementary First Nations and Inuit degree. OFNIE also works with departments to meet other educational needs of Indigenous peoples.

Department of Integrated Studies in Education, OFNIE
 Education Building, Room 244
 Telephone: 514-398-4527
 Email: ofnie.education@mcgill.ca
 Website: mcgill.ca/dise/ofnie

Courses offered through the School of Continuing Studies and Summer Studies: A wide range of courses are offered through the School of Continuing Studies and Summer Studies. For courses offered, please check [Minerva](#).

5.5.3 Programs for First Nations and Inuit

The following programs are offered for First Nations and Inuit teachers by the Faculty of Education.

Information can be obtained by contacting:

Office of First Nations and Inuit Education (OFNIE)
 3700 McTavish Street, Room 244
 Montreal QC H3A 1Y2
 Telephone: 514-398-4527
 Website: mcgill.ca/dise/ofnie

Bachelor of Education – Kindergarten and Elementary First Nations and Inuit Studies Option

Detailed information about this program may be found at [section 5.8.2.13: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#)

Programs for First Nations and Inuit

Detailed information about the following programs may be found in [section 5.8.3: Programs for First Nations and Inuit](#):

- [: Bachelor of Education for Certified Teachers - Elementary Education: Indigenous Education \(90 credits\)](#)
- [: Certificate \(Cert.\) Education for First Nations and Inuit \(60 credits\)](#)
- [: Certificate \(Cert.\) First Nations and Inuit Student Personnel Services \(30 credits\)](#) (This program is offered by the Department of Educational and Counselling Psychology through the Office of First Nations and Inuit Education. Restrictions apply to enrolment.)
- [: Certificate \(Cert.\) Middle School Education in Indigenous Communities \(30 credits\)](#)
- [: Certificate \(Cert.\) First Nations and Inuit Educational Leadership \(30 credits\)](#)
- [: Certificate \(Cert.\) Indigenous Language and Literacy Education \(30 credits\)](#)
- [section 5.8.3.7: Certificate \(Cert.\) Inclusive Education \(30 credits\)](#) (This program is offered by the School of Continuing Studies and the Department of Educational and Counselling Psychology through the Office of First Nations and Inuit Education. Restrictions apply to enrolment.)

5.6 Faculty Regulations for Undergraduate Programs

Please consult [University Regulations and Resources > Undergraduate](#) for regulations and procedures regarding registration, fees, course load, course change (add/drop), withdrawal, verification, examinations, inter-university transfer, and graduation. In addition, the following section provides regulations specific to Faculty of Education students.



Note: Each student in the Faculty of Education must be aware of and comply with 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 complete and correct course selection and registration; for compliance with, and completion of, program and degree requirements; for the observance of regulations and deadlines; and for academic records—rests with the student. It is the student’s responsibility to seek guidance. Misunderstanding will not be accepted as cause for dispensation from any regulation, deadline, program, or degree requirement.

5.6.1 Advising

Refer to [University Regulations and Resources > Undergraduate > section 1.11: Undergraduate Advising](#) and the [Internships and Student Affairs website](#) for further information. Assistance is also available by emailing isa.education@mcgill.ca.

All **newly admitted** students are required to consult with an academic adviser prior to the start of the Fall term. For a detailed description of advising and registration procedures, students should refer to [Welcome to McGill at mcgill.ca/accepted](#). Additional advising material is also available on the [Internships and Student Affairs website](#).

Academic advising for all **returning students** takes place in the spring for the upcoming academic year. Links to departmental (program) advising websites and detailed information on registration and important Faculty of Education policies are posted on the Internships and Student Affairs website: mcgill.ca/isa/student. Students entering their graduating year are encouraged to meet with their departmental (program) adviser during this Advising period.

A list of courses for Freshman (Year 0) students is available for each program at [section 5.5.1: Undergraduate Education Programs](#).

5.6.2 McGill Principles of Practice, Behaviour and Ethical Conduct for Teacher Candidates

The mission of McGill University’s Bachelor of Education Program within the Department of Integrated Studies in Education (DISE) and the Department of Kinesiology and Physical Education (KPE) as well as the Master of Teaching and Learning (MATL) Program within DISE in cooperation with the Faculty of Education’s Internship and Student Affairs Office (ISA) is to prepare teachers who are knowledgeable, skillful, flexible, creative, and compassionate members of the profession guided by a sense of social and ethical responsibility in relation to their students and the wider society.

In keeping with the professional culture of teaching and learning, McGill's teacher education community believes that teaching and learning spaces should model such professional environments. McGill's teacher education community is committed to creating authentic opportunities where an understanding of teaching and learning is co-constructed between instructors and teacher candidates, teachers and learners, as well as peer-to-peer and beyond. In order for us to create these learning environments, we are expected to demonstrate awareness of, respect for, and commitment to, the behaviours and actions of professionals. We expect members of McGill's teacher education community, including teacher candidates, teaching assistants, lecturers, professors and community partners to be accountable to themselves and others, and to be engaged, collegial, and accessible. By doing so, McGill's teacher education community is more fully able to share together in the types of critical dialogue, creative thinking, and reflective practice expected of professionals.

McGill's teacher education community is committed to nurturing a space where teacher candidates, teaching assistants, lecturers, professors and community partners can all engage in the exchange of ideas and dialogue, without fear of being made to feel unwelcome or unsafe on account of biological sex, sexual orientation, gender identity or expression, race/ethnicity, religion, linguistic and cultural background, age, physical or mental ability, or any other aspect integral to one's personhood. We therefore recognize that it is our individual and collective responsibility, to strive to establish and maintain an environment wherein all interactions are based on empathy and mutual respect for the person, acknowledging differences of perspectives, free from judgment, censure, and/or stigma.

Finally, McGill's teacher education community is charged with ensuring that all graduates of its programs have the requisite knowledge, skills, and attitudes required of the teaching profession and can meet standards of the Québec Professional Teacher Competencies to be eligible for professional certification as educators in the Province of Québec.

The complete McGill Principles of Practice, Behaviour and Ethical Conduct for Teacher Candidates document can be found on this link mcgill.ca/isa/student/principles

In the event of discrepancy between the information included here and the information on the ISA website, the latter shall prevail.

5.6.3 English Language Requirement

The Quebec Ministry of Education requires that all students in teacher education programs demonstrate their proficiency in the language of instruction. To fulfil this obligation, B.Ed. students are expected to write the **English Examination for Teacher Certification (EETC)** before the end of their first semester in the program, except for Year 0 (Freshman) students who are required to write the examination in their second year (Year 1). Students must pass the examination prior to their Third Field Experience.

The examination is coordinated by an independent body, the Centre for the English Exam for Teacher Certification (*CEETC*). McGill assists with the administration and scheduling of the examination.

To write this examination, students must:

1. register on Minerva for a section of EDEC 215;
2. register for a specific session date and time with the CEETC (www.ceetc.ca);
3. pay a fee to the CEETC prior to writing the test.

Students who do not pass the examination the first time are expected to avail themselves of support offered via workshops and/or recommended courses and are required to take the EETC again. A fee is charged each time the examination is written. Students who do not pass the examination on their fourth attempt must request permission from the Director of Internships and Student Affairs to write the examination again. If a student does not pass the EETC on the fifth and final attempt, they will be withdrawn from the program. Any subsequent readmission will be conditional on first passing the EETC.

More information about the EETC is available on the ISA website (mcgill.ca/isa/student/current/eetc).



Note: This requirement does not apply to students in Certificate in Education for First Nations and Inuit programs.

5.6.4 Judicial Record Verification for Students in the Bachelor of Education Programs

Quebec's Education Act, section 261.0.2, grants school boards the right to verify the judicial record of any person regularly in contact with minors, and this includes student teachers. Each school board or private school may have its own administrative procedures for verification. Students are responsible for complying with their request. Anyone unable to obtain the required security clearance will not be permitted to undertake their Field Experiences, which is a mandatory requirement of the program, and consequently would be required to withdraw from the program.

5.6.5 Course and Program Regulations

5.6.5.1 Course Load

Undergraduate Education programs can normally be followed only on a full-time basis. Students must take a minimum of twelve (12) credits per term unless the Director of Internships and Student Affairs gives them special permission. Special permission must be requested prior to the end of Course Add/Drop period.

Any absence or reduction in course load that may impact the regular progression of a student's program must have written approval by the Director of Internships and Student Affairs.

The normal course load per term is 15 credits. Students in Satisfactory Standing may take up to 17 credits per term. Students whose CGPA is above 3.00 may request permission to take an overload. Overloads are **not** allowed in major Field Experience terms for students in the B.Ed. programs. Students in Probationary Standing take a maximum of 12 credits.

5.6.5.2 Time Limit and Credits for Completion of Degrees

Students are expected to complete their program no more than:

- five (5) years after their initial registration and within 150 credits for the **B.Ed.** degree;
- four (4) years after their initial registration and within 120 credits for the **B.A.(Education)** degree;
- four (4) years after their initial registration and within 120 credits for the **B.Sc.(Kinesiology)** degree.

Students who enter into a **Freshman year** become subject to these regulations one year after their initial registration. Students who exceed these limits must apply to the Faculty for permission to continue.

Students will receive credits for all courses (subject to degree regulations) taken up to and including the semester in which they obtain the full degree credit requirements. Students who wish to remain at McGill beyond that semester must seek permission of the Director of Internships and Student Affairs. Students who wish to exceed the specified minimum number of credits required for their degree must also seek permission of the Director of Internships and Student Affairs. If permission is granted, credits over the limit will be flagged for no credit and the grades will not count in the CGPA.

Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as change of program or approved part-time status. If permission is granted, students will receive credit only for required and complementary courses necessary to complete their program requirements.

5.6.5.3 Course Requirements

All required and complementary courses used to fulfil program requirements must be completed with a grade of C or better. Students who fail to obtain a satisfactory grade in a required and/or complementary course must either pass the supplemental examination if available, or repeat the course. If the failed course is a complementary course required by the program, a student may choose to replace it with another complementary course. If a student repeats a required course in which a D was received, credit will only be given once. Students must contact their program adviser at least once each academic year and at the end of year 3 (B.Ed. Programs) and year 2 (B.A.(Education), B.Sc.(Kinesiology) program) to ensure that they are on the right track to completing their program requirements. A failure (F, J, KF, WF) in any level of Field Experience places a student in Unsatisfactory Standing, requiring withdrawal from the program. Further details on requirements for Field Experience are listed in [Faculty of Education > Undergraduate > section 5.7: Student Teaching/Field Experience](#).

5.6.5.4 Electives

Any courses taught at McGill University may be used towards elective credits, with the following exceptions:

- School of Continuing Studies courses with a teaching unit that starts with C are not for credit (except for CHEM courses, and courses offered by the McGill Writing Centre).
- Online Education: Refer to the [section 5.6.5.7: Online Courses](#) section below.

5.6.5.5 Courses Taken as Transfer Credit

Students wishing to study away at a university outside of Quebec must obtain approval from their academic adviser and the Internships and Student Affairs Office prior to taking a transfer course. Students will only be permitted to take courses required to complete their program. Students are not permitted to take transfer courses during their graduating term. Please refer to [University Regulations and Resources > Undergraduate > Student Records > section 1.5.6: Transfer Credits](#) for further information.

5.6.5.6 Inter-University Transfer Credit

Students may, with the permission of their academic adviser, register at any 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., B.A.(Education), 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 equivalent or that overlaps in content with a course for which they have already received credit at McGill, or any other institution. It is the student's responsibility to be aware of exclusion clauses specified in the course

description in this publication and Minerva. Students should also refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: mcgill.ca/students/courses/plan/transfer, as well as the following website for Faculty-specific information: mcgill.ca/isa.

5.6.5.10 Dress Regulations

All students enrolled in teacher certification programs are advised that school boards and individual schools may have regulations concerning acceptable attire. Students must adhere to any such regulations.

Students in Kinesiology and Physical Education programs are required to wear appropriate clothing for activity courses as approved by the instructor(s). Students may also be responsible for providing some items of personal equipment.

5.6.6 Registration

All students register by Minerva, McGill's web-based registration system. For detailed information about registration, refer to [University Regulations and Resources](#) > Undergraduate > [section 1.3: Registration; Next Steps](#) at mcgill.ca/accepted; the Internships and Student Affairs website, mcgill.ca/isa; and to the Student Records website, mcgill.ca/student-records.

Students who fall into Unsatisfactory Standing at the end of the academic year will have their registration cancelled and may not re-register in the Faculty. Students who can provide proof of extenuating circumstances may appeal to the Director of Internships and Student Affairs for readmission. Please refer to [University Regulations and Resources](#) > Undergraduate > [section 1.3.10: Readmission](#) and to mcgill.ca/isa for Faculty-specific information.

Students who have an outstanding fee balance from a previous term or outstanding fines will not be permitted to register. Students with financial problems should consult the Student Aid Office, Brown Student Services Building.

Students who decide not to return to McGill must withdraw from all of their courses on Minerva or inform the Internships and Student Affairs Office in writing. For further information, refer to [University Regulations and Resources](#) > Undergraduate > [section 1.3.3.1: Course Withdrawal](#) and [section 1.3.8: University Withdrawal](#).

5.6.6.1 Course Registration

Students in Faculty of Education programs should register for the courses as outlined in the individual program overviews and advising material available on the Internships and Student Affairs Office website at mcgill.ca/isa for new and current students. For more information on registration, see [University Regulations and Resources](#) > Undergraduate > [section 1.3: Registration](#).

Students in the B.Ed. programs who are required to be registered for Field Experience should consult [section 5.7: Student Teaching/Field Experience](#) for more information.

Some courses may require special permission. Students should consult the [eCalendar](#) and/or the Class Schedule on Minerva 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 they wish to take.

A number of courses have prerequisites that must be completed prior to course registration. Permission to waive a prerequisite requirement must be given in writing by an academic adviser.

5.6.6.2 Withdrawals

There are three course withdrawal periods, published on the University website, 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.



Note: For the most up-to-date and accurate information about placements and attendance, please consult the [Student Teaching e-Handbook](#).

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.

5.6.10 Examinations

Students should see [University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information](#) for more information about final examinations and deferred examinations. The exam schedules are posted at [mcgill.ca/exams](#), normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

5.6.10.1 Supplemental Examinations

Students who wish to write a supplemental examination for a course in which a supplemental examination is available must apply on [Minerva](#) within the published deadline. Please refer to [mcgill.ca/exams](#) for important information.

Students must be in Satisfactory or Probationary Standing and have received a final grade of D, J, F, or U in the course.

5.6.10.2 Reassessment and Rereads

In accordance with the Charter of Student Rights, and subject to the conditions stated therein, students have the right to consult any written submission for which they have received a grade and the right to discuss this submission with the examiner (see [University Regulations and Resources > Undergraduate > Examinations: General Information > Final Examinations > section 1.6.3.3: Final Examinations: Reassessments and Rereads](#)).

The Faculty recognizes two types of reassessments or rereads:

1. Reassessment of coursework (term papers, mid-terms, assignments, quizzes, etc.)
2. Reread of a final exam

5.6.10.3 Reassessment of Course Work

Reassessment of course work is administered by the course instructor or the offering department. Requests, made by students, must be made within 10 working days of the date of return of the graded materials. The reviewer will assess the fairness of the original grade rather than re-grade the assignment as he or she would have graded it. Reassessments should normally be completed within 20 working days of the request. Grades may be lowered or raised, or they may remain the same, as a result of the reassessment. The grade obtained on the reassessment takes precedence over the original grade.

5.6.10.4 Rereads of Final Exams or Final Term Papers or Projects

These rereads are administered by the Internships and Student Affairs Office, but conducted by the units involved. Students must apply in writing to the Internships and Student Affairs Office by:

- **March 31** for courses in the Fall term
- **June 30** for courses in the Winter term
- **September 30** for courses in the Summer term

These deadlines are strictly enforced and no requests will be accepted past them. Students are assessed a fee for such rereads; for fee amount and details, please refer to the [Student Accounts website](#). It is strongly recommended, but not required, that students consult with the instructor of the course before requesting an official reread. The reviewer will assess the fairness of the original grade rather than re-grade the assignment as he or she would have graded

it. Grades may be lowered or raised, or they may remain the same, as a result of the reread. The grade obtained on the reread takes precedence over the original grade.

Reassessments and rereads in courses not in the Faculty of Education are subject to the deadlines, rules, and regulations of the particular faculty.

5.6.11 Academic Standing

Academic Standing is based primarily on students' cumulative grade point average (CGPA), but may also be affected by their term grade point average (TGPA). For students in the B.Ed. programs, it is also based on their performance in the Field Experience courses. Academic Standing, which is assessed after the end of term, determines if students will be allowed to continue their studies in the next term and if any conditions will be attached to their registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which students have deferred examinations and Fall term grades for courses that span the Fall and Winter terms do not affect Academic Standing for the Fall term, even though they will ultimately affect students' Fall TGPA. Therefore, Academic Standing for the Fall term is designated as "Interim" and should be interpreted as advisory.

Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions. Students who do not receive a Pass grade for a Fall term EDFE (Field Experience course) are placed in Unsatisfactory Standing (not Interim Unsatisfactory Standing). Permission may be exceptionally granted by the ISA Director to allow them to continue taking courses during the Winter term only.

5.6.11.1 Satisfactory/Interim Satisfactory Standing

Students in Interim Satisfactory or Satisfactory Standing:

- may continue in their program;
- have a CGPA of 2.00 or greater.

5.6.11.2 Probationary/Interim Probationary Standing

5.6.11.2.1 Interim Probationary Standing at the end of the Fall term

Students in Interim Probationary Standing at the end of the Fall term:

- may continue in their program;
- should evaluate their course load and reduce it;
- should consult with their program adviser before the withdrawal deadlines;
- are permitted to proceed with the next scheduled Field Experience course, i.e., Winter or Spring, for First- or Second-Year Field Experiences only.

5.6.11.2.2 Probationary Standing at the end of the Winter term

Students in Probationary Standing at the end of the Winter term:

- may continue in their program;
- must carry a reduced load (maximum of 12 credits per term);
- are not permitted to take student teaching/Field Experience courses of any level during the next academic year;
- must raise their TGPA and CGPA to return to Satisfactory;
- should see their departmental adviser to discuss their course selection.

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 previously in Satisfactory Standing;
- if they receive a grade of D for a Field Experience course of any level and were previously in Satisfactory Standing;
- if their CGPA falls between 1.50 and 1.99 and their TGPA in Fall or Winter is 2.50 or higher, and if they were previously in Probationary or Interim Unsatisfactory Standing;
- if their CGPA is between 1.50 and 1.99 and their TGPA is 2.50 or higher, they were previously in Unsatisfactory Readmitted Standing, and have satisfied the relevant conditions specified in their letter of readmission.

5.6.11.3 Unsatisfactory/Interim Unsatisfactory Standing

5.6.11.3.1 Interim Unsatisfactory Standing at the end of the Fall term

Students in Interim Unsatisfactory Standing at the end of the Fall term:

- may continue in their program;
- should evaluate their course load and reduce it as appropriate;
- should consult a departmental adviser, before the withdrawal deadlines, about their course selection for the Winter term;
- will not be permitted to proceed with the next normally scheduled Field Experience.

5.6.11.3.2 Unsatisfactory Standing at the end of the Winter term

Students in Unsatisfactory Standing at the end of the Winter term:

- have failed to meet the minimum standards set by the Faculty;
- may not continue in their program.

5.6.11.3.3 Readmitted Unsatisfactory Standing

Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Director, Internships and Student Affairs or the Student Affairs Committee will have their Standing changed to Readmitted Unsatisfactory Standing. Their course load is specified at the time of readmission, as are the conditions they must meet to be allowed to continue in their program. They should see their departmental adviser to discuss their course selection.

5.6.11.3.4 Students will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term)

- if their CGPA falls or remains below 1.50;
- if their TGPA falls below 2.50 and their CGPA is below 2.00 and they were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing;
- if they receive a failure (F, J, KF, WF) in a student teaching/Field Experience course of any level (*in this case, students will be placed in Unsatisfactory Standing, regardless of the term);
- if they were previously in Unsatisfactory Standing and were readmitted to the Faculty by the Director, Internships and Student Affairs or the Student Affairs Committee and have not at least satisfied the conditions to attain Probationary Standing that were specified in the letter of readmission.



Note: Students in the Concurrent B.Mus. and B.Ed. program who receive an F or J in any Education Field Experience course are placed in Unsatisfactory Standing. Although they may complete their term, they are required to withdraw from the Concurrent program. They may, however, contact the Schulich School of Music regarding application to a Bachelor of Music degree.

5.6.11.3.5 Readmission

Students should apply on Minerva by July 1 for readmission to the Fall term or by November 15 for the Winter term. Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Director, Internships and Student Affairs. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). Additional conditions may apply.

Students in Unsatisfactory Standing for the second time must withdraw permanently. Students who were placed in Unsatisfactory Standing due to a failure in student teaching/Field Experience cannot apply for readmission for at least one full year and are advised to apply for Fall readmission by April 15. Appeals for readmission due to failure in a field experience are heard by the Faculty of Education Student Affairs Committee. Please refer to the Internships and Student Affairs Office website for further information: mcgill.ca/isa.

5.6.11.3.6 Incomplete Standings

- Must clear Ks, Ls, or Supplementals
- To Be Determined
- Incomplete

Students with Incomplete Standings in the Winter or Summer term may register for the Fall term, but their Standing must be resolved by the end of the Course Change period for that term. Students whose Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing may continue in the program. Students whose Standing changes to Unsatisfactory may not continue in their program.

Students whose Standing changes to Unsatisfactory and who wish to ask for permission to continue in their program must make a request to the Director, Internships and Student Affairs as soon as they are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). Additional conditions may apply.

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., the B.A.(Education), 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 (CGPA) of 2.00. Students must satisfactorily complete a minimum of 60 credits at McGill University toward the fulfilment of the degree requirements. In addition, students must complete specific components of their program at McGill.

Students enrolled in Kinesiology and Physical Education programs are required, before the end of their final year of study, to show proof of certification in Standard Level Safety Oriented First Aid, and Level C in Cardiopulmonary Resuscitation, or equivalencies.

Students must complete their degree requirements within five (5) years after their initial registration for the B.Ed. degree and within four (4) years after their initial registration for the B.A.(Education) and B.Sc.(Kinesiology) degree. Students who enter into a Freshman year become subject to these regulations one year after their initial registration. Students in the part-time B.Ed. for Certified Teachers program are allowed a maximum of 12 years to complete the requirements for the degree.

It is the student's responsibility to ensure that all Faculty requirements are met before graduation.

Early in their graduating year, all students should check with their adviser to make sure that they will meet all program requirements in time for graduation. It is essential that students in their final year indicate the expected date of graduation by applying for graduation on Minerva; see [University Regulations and Resources > Undergraduate > section 1.9: Graduation](#) for more information. During the graduation approval process, students can query their graduation record on Minerva to verify that the Faculty has approved their graduation. When a final-year student changes the expected date of graduation, the student must notify the Internships and Student Affairs Office immediately. It is also the student's responsibility to complete the required forms for teacher certification, and to check that their graduation has been approved. Further information is available on the Internships and Student Affairs Office website: mcgill.ca/isa.

Students are not permitted to take courses outside McGill University during the last term prior to graduation. Students who fail to graduate as expected and who do not re-register must apply to the Director of Internships and Student Affairs to graduate. Application to graduate must be made sufficiently in advance of the expected graduation date to allow the Faculty to verify the student's record.

Information pertaining to the convocation ceremonies can be obtained on the McGill website: mcgill.ca/graduation/convocation.

5.6.13 Undergraduate Program Awards

5.6.13.1 Dean's Honour List Designation for Graduating Students

The designation Dean's Honour List may be awarded to graduating students under the following conditions:

- Students must be among the top 10% of the Faculty's graduating students.
- Students must have completed a minimum of 60 McGill credits to be considered.
- The designation is based on the cumulative academic record (CGPA).

5.6.13.2 Dean's Honour List Designation for In-course Students

The designation Dean's Honour List may be awarded to in-course students under the following conditions:

- Students must be among the top 10% of the Faculty's students.
- Students must have completed at least 27 graded credits during the academic year.
- The designation is based on the sessional (Fall and Winter) GPA.

5.6.13.3 Scholarships and Awards

Various scholarships and awards are open to both graduating and in-course students. For more information, consult the Scholarships and Student Aid website at mcgill.ca/studentaid/scholarships-aid.

5.7 Student Teaching/Field Experience

The **Internships and Student Affairs Office (ISA)**, mcgill.ca/isa, is responsible for arranging the placement and evaluation of all student teachers in supervised Field Experiences.

5.7.1 About Field Experiences

Field Experiences:

- are required courses (with the subject code EDFE) for all students in B.Ed. programs from first through fourth year;
- are the sole responsibility of the Faculty of Education and are organized by the Internships and Student Affairs Office. Under no circumstances should students seek, solicit, or 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 Satisfactory Standing and have satisfied all prerequisite and corequisite course requirements (refer to mcgill.ca/isa/teaching). **B.Ed. Secondary** program students must have successfully completed 24 credits in their official subject area prior to Field Experience 3. All **B.Ed.** students must successfully pass the English Exam for Teacher Certification (EETC; EDEC 215) prior to Field Experience 3. Minerva does not necessarily prevent students from registering for courses that they should not take. It is the student's responsibility to be aware of prerequisites, corequisites, restrictions, and Faculty regulations that apply to the courses in which they register. Students should consult an academic adviser for assistance. Students missing any of these requirements will be removed from their field placement. (See [section 5.7.4.1: Early Dismissal from Field Experience](#).)
- in **B.Ed. K/Elementary**, **Secondary**, and **TESL** programs who wish to transfer within these programs will not be required to repeat Field Experience 1.

5.7.3 Student Responsibilities

Students are responsible for familiarizing themselves with the policies and rules governing all aspects of Field Experience, including pedagogical and professional behaviour, available at mcgill.ca/isa/teaching/e handbook/policy.

Students are advised not to engage in any type of employment during Field Experience nor register for any non-corequisite course(s) that might conflict with times when students should be in the field, and therefore will interfere with the successful outcome of a Field Experience.

5.7.3.1 Guidelines (Syllabus)

Detailed guidelines and evaluation forms for every Field Experience are posted on the [ISA website](#), arranged by program and year. Students are responsible for familiarizing themselves with the objectives, evaluation criteria, and forms for each level of Field Experience.

5.7.3.2 Attendance and Absences

Punctual attendance is required at the assigned school for the entire Field Experience. Alternate dates cannot be arranged at the request of the student. Unexcused absences from intensive courses and professional seminars may result in exclusion from the course, course failure, and/or removal from any associated Field Experience.

Days absent due to **illness** or **McGill exams** must be made up at the end of the Field Experience. Absences due to illness extending beyond two days require a valid medical note (see mcgill.ca/wellness-hub/hub-clinical-services/medical-notes-and-immunization-reviews#Medical%20Notes) to be submitted to the ISA, and, depending on the circumstances, the 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 Coordinators (Email : placements.education@mcgill.ca)
- 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 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.

Absences related to **McGill Intercollegiate Sport** events are evaluated by the ISA Director on a case-by-case basis. Student teachers must submit a signed copy of the [Intercollegiate Sport Event Accommodation form](#) to the ISA at least two weeks in advance of the scheduled event/absence. This form can be obtained from McGill Athletics & Recreation.

Requests to be absent from the placement for any other reasons are exceptionally permitted by the ISA Director on a case-by-case basis. Any request for absence must be sent to your Placement Coordinator a minimum of 2 weeks before the proposed absence. Students should consult an Academic Adviser if they need to rearrange their course schedule.

5.7.3.3 Judicial Record Verification

See [Faculty of Education > Undergraduate > Faculty Regulations for Undergraduate Programs > section 5.6.4: Judicial Record Verification for Students in the Bachelor of Education Programs](#) for information on the requirement to obtain this security clearance. Additional information can be found on the [ISA website](#).

5.7.3.4 Work Permit for International Students

In order to be in compliance with government regulations, international students (students who are not Permanent Residents or citizens of Canada) should apply for an internship/co-op work permit issued by Citizenship and Immigration Canada (CIC) to complete their mandatory Field Experiences. This is not the same as an off-campus paid work permit, and it is not automatically included in the study permit. The internship/co-op work permit is free of charge, but takes time to obtain and requires a medical exam by a designated CIC physician; medical exam fees vary. For assistance with the application process, students should contact International Student Services: mcgill.ca/internationalstudents.

5.7.4 Grading and Credit

Field Experiences are graded “Pass/Fail” (“P”, “F”) and final grades are based on field evaluation forms from both the Field Supervisor and Cooperating Teacher.

Where a student is experiencing serious difficulties in a Field Experience but has demonstrated some potential to successfully reach the required standard, the student may be granted a grade of “D”. In this case, the ISA Director has the authority to grant permission for the student to repeat the Field Experience during the next term in which it is regularly offered. This permission will be granted once only in a student’s program.

Given the emphasis of the corequisite course(s) on supporting the fieldwork component and vice versa, students who receive a grade of “D” in a Field Experience may be required to withdraw from the corequisite course(s) depending on the date of early dismissal and percentage of corequisite course(s) completed. A decision in this regard will be reached by the ISA Director in consultation with the Undergraduate Program Director. In the event that a student must withdraw from the corequisite course(s), the student will register for and repeat the course(s) along with the Field Experience when it is next regularly offered.

Students must receive a grade of “P” in order to proceed in the B.Ed. program. Failure (“F”, “J”, “KF”, “WF”) in any Field Experience places a student in Unsatisfactory Standing (regardless of the term), requiring withdrawal from the B.Ed. program.

A student may appeal any outcome of a Field Experience by making a formal application to the Faculty of Education Student Affairs Committee. Please refer to mcgill.ca/isa/teaching/handbook/policy/grade-appeal for more details.

5.7.4.1 Early Dismissal from Field Experience

At any time, students may be removed from their Field Experience at the request of the host School Administrator and/or Cooperating Teacher, or at the request of the ISA Director. Students who are removed from a Field Experience will be informed of the reason for the dismissal and will meet with the ISA Director.

Circumstances that could lead to early dismissal include, but are not limited to:

- Prerequisite courses not successfully completed;
- Exceeding the number of permissible unexcused absences for corequisite courses (consult the syllabus for each course);
- Failure to pass a judicial record check, if required by the school/board where the student is placed;
- Unprofessional behaviour; behaviour that contravenes the McGill Principles of Practice, Behaviour and Ethical Conduct for Teacher Candidates ;
- Failure to demonstrate Professional Competencies as expected and/or make the improvements outlined on a Competency Improvement Plan (CIP) by the date indicated.

The final outcome for early dismissal from a Field Experience will be decided by the ISA Director.

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 their 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 mcgill.ca/transferecredit, as well as Faculty-specific information at mcgill.ca/isa/student/new.

5.7.5 McGill Principles of Practice, Behaviour and Ethical Conduct for Teacher Candidates

5.7.5.1 Section I. Introduction

- The mission of McGill University's Bachelor of Education Program within the Department of Integrated Studies in Education (DISE) and the Department of Kinesiology and Physical Education (KPE) as well as the Master of Teaching and Learning (MATL) Program within DISE in cooperation with the Faculty of Education's Internship and Student Affairs Office (ISA) is to prepare teachers who are knowledgeable, skillful, flexible, creative, and compassionate members of the profession guided by a sense of social and ethical responsibility in relation to their students and the wider society.

In keeping with the professional culture of teaching and learning, McGill's teacher education community believes that teaching and learning spaces should model such professional environments. McGill's teacher education community is committed to creating authentic opportunities where an understanding of teaching and learning is co-constructed between instructors and teacher candidates, teachers and learners, as well as peer-to-peer and beyond. In order for us to create these learning environments, we are expected to demonstrate awareness of, respect for, and commitment to, the behaviours and actions of professionals. We expect members of McGill's teacher education community, including teacher candidates, teaching assistants, lecturers, professors and community partners to be accountable to themselves and others, and to be engaged, collegial, and accessible. By doing so, McGill's teacher education community is more fully able to share together in the types of critical dialogue, creative thinking, and reflective practice expected of professionals.

McGill's teacher education community is committed to nurturing a space where teacher candidates, teaching assistants, lecturers, professors and community partners can all engage in the exchange of ideas and dialogue, without fear of being made to feel unwelcome or unsafe on account of biological sex, sexual orientation, gender identity or expression, race/ethnicity, religion, linguistic and cultural background, age, physical or mental ability, or any other aspect integral to one's personhood. We therefore recognize that it is our individual and collective responsibility, to strive to establish and maintain an environment wherein all interactions are based on empathy and mutual respect for the person, acknowledging differences of perspectives, free from judgment, censure, and/or stigma.

Finally, McGill's teacher education community is charged with ensuring that all graduates of its programs have the requisite knowledge, skills, and attitudes required of the teaching profession and can meet standards of the Québec Professional Teacher Competencies to be eligible for professional certification as educators in the Province of Québec.

- The complete McGill Principles of Practice, Behaviour and Ethical Conduct for Teacher Candidates document can be found on this link mcgill.ca/isa/student/principles

5.8 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the current academic year as listed.

5.8.1 Educational and Counselling Psychology

5.8.1.1 Location

Educational and Counselling Psychology, Faculty of Education

3700 McTavish Street, Room 614

Montreal QC H3A 1Y2

Telephone: 514-398-4242

Fax: 514-398-6968

Email, for general inquiries: ecpinfo.education@mcgill.ca

Email, for admissions inquiries: admissions.ecp@mcgill.ca

Website: mcgill.ca/edu-ecp

5.8.1.2 About the Department of Educational and Counselling Psychology

Educational Psychology encompasses:

- a. the theoretical and applied study of learning, cognition, and instruction in a variety of educational settings across ages and domains;

- b. instructional technology and computers as cognitive tools in learning;
- c. cognitive and social processes in learning;
- d. evaluation and enhancement of learning and teaching;
- e. methods for fostering inclusive education;
- f. relationships of phenomena related to teaching, learning, and assessment in human development; and
- g. the impact of family and community on children's learning and development.

At the undergraduate level, the Department of Educational and Counselling Psychology is responsible for the B.A. Minor Concentration Educational Psychology; see the [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.12: Educational Psychology](#) for more information and for a variety of undergraduate courses in the areas of learning, cognition and development, inclusive education, gifted education, educational media and computers, and educational measurement and evaluation.

In professional development, the Department offers diploma or certificate programs in Human Relationships, Diversity & Sexuality, Inclusive Education, and Counselling Applied to Teaching. For more information, please consult our [website](#), or contact the Department:

Telephone: 514-398-4242

Email: ecpcont.education@mcgill.ca

Special services offered by the Department include the Psychoeducational & Counselling Clinic (mcgill.ca/edu-ecp/about/clinic).

Graduate and Postdoctoral Studies

At the graduate level, the Department of Educational and Counselling Psychology offers **Master of Arts degrees (M.A.)** in:

- Counselling Psychology – with concentrations in Project (Research-based) or in Professional/Internship (Practitioner-based)
- Educational Psychology – with concentrations in Health Professions Education, Human Development, and Learning Sciences
- School/Applied Child Psychology – Project (Research-based)

Also offered are **Master of Education degrees (M.Ed.)** in:

- Educational Psychology – with concentrations in General Educational Psychology, Inclusive Education, and Learning Sciences.

Students can also obtain **Doctoral degrees (Ph.D.)** in:

- Counselling Psychology
- School/Applied Child Psychology
- Educational Psychology – with concentrations in Human Development or Learning Sciences

The Department also offers a **Postdoctoral Graduate Diploma** in School/Applied Child Psychology (*admission to this program is temporarily suspended*).

For further information, consult the Faculty of Education's [Graduate and Postdoctoral Studies section](#).

5.8.1.3 Educational and Counselling Psychology Faculty

Chair

Victoria Talwar

Program Directors

Armando Bertone – *School/Applied Child Psychology*

Michael Hoover – *Learning Sciences, Health Professions Education*

Ada Sinacore – *Counselling Psychology, Graduate Certificate in Counselling Applied to Teaching*

Gigi Luk – *Human Development, M.Ed. Concentrations in Educational Psychology*

Emeritus Professors

Mark W. Aulls; Robert J. Bracewell; Janet G. Donald; Florent R. Dumont; Marilyn Fitzpatrick; Carl H. Frederiksen; Lynn McAlpine; Eigil Pedersen; Alenoush Saroyan; Bruce M. Shore; Cynthia B. Weston.

Professors

Jacob A. Burack; Jeffrey L. Derevensky; Martin Drapeau; Nancy L. Heath; Susanne P. Lajoie; Krista Muis; Victoria Talwar.

Associate Professors

Armando Bertone; Alain Breuleux; Adam Dubé; Tara Flanagan; Nathan Hall; Michael L. Hoover; Chiaki Konishi; Annett Körner; Gigi Luk; Eve-Marie Quintin; Jessica Ruglis; Steven R. Shaw; Ada L. Sinacore; Ingrid E. Sladeczek; Ronald Stringer; Caroline Temcheff.

Assistant Professors

Marie-Claude Geoffroy; Bassam El-Khoury; Rachel Langevin; Tina Montreuil; Marie-Hélène Pennestri; Kristy Robinson; Dennis Wendt; Shanna Williams.

Faculty Lecturer

Karen Cohen-Gazith.

Associate Members

Reut Gruber; Vera Romano; Brett D. Thombs; Ashley Wazana; Jeffrey G. Wiseman.

Associate Professors (Non-Tenure Track)

Marcia A.B. Delcourt; Laura Winer.

Assistant Professors (Non-Tenure Track)

Judith Norton

Adjunct Professors

Sylvie Beauchamp; Nicola Gazzola; Thomas Goetz; Mi Song Kim; Marina Milyavskaya; Katherine Moxness; Eric Poitras; Robert Savage; Anastassios Stalikas; Boris Vucovic.

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: 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 mcgill.ca/dise/progs.

5.8.2.3 Integrated Studies in Education Faculty

Chair

Lisa Starr

Director of Teacher Education Programs (B Ed & MATL)

Mindy Carter

Assistant Director of Teacher Education Programs (B Ed & MATL)

Sheryl Smith-Gilman

Director of First Nations and Inuit Education

Stephen Peters

Assistant Director of First Nations and Inuit Education

James Howden

Director of Ph.D. Program and MA Thesis Programs

Paul Zanazanian

Director of MA Non-Thesis Programs

Joseph Levitan

Director of Internships and Student Affairs

TBA

Emeritus Professors

Patrick X. Dias; David Dillon; Margaret Gillett; John B. Gradwell; Denise Lussier; Roy Lyster; Mary H. Maguire; Anthony Paré; Jacques J. Rebuffot; Bernard Shapiro; David C. Smith; R. Lynn Studham; Lise Winer; John Wolforth.

Professors

Lynn Butler-Kisber; Ratna Ghosh; Claudia A. Mitchell; Shaheen Shariff.

Associate Professors

Anila Asghar; Susan Ballinger; Eric Caplan; Mindy Carter; Christian Ehret; Limin Jao; Steven Jordan; Marta Kobiela; Bronwen Low; Kevin McDonough; Caroline Riches; Mela Sarkar; Annie Savard; Lisa Starr; Teresa Strong-Wilson; Boyd White; Elizabeth Wood; Paul Zanazanian.

Assistant Professors

Angelica Galante; Allison Gonsalves; Blane Harvey; Philip Howard; Amir Kalan; Joseph Levitan; Janine Metallic; Nantre Nafziger; Elizabeth Patitsas; Emmanuel Tabi.

Faculty Lecturers

Hannah Chestnutt; James Howden; Stephen Peters; Sheryl Smith-Gilman.

5.8.2.4 Overview of Programs (Integrated Studies in Education)

The following is an overview of programs offered by the Department of Integrated Studies in Education.

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 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 5.8.2.7: Bachelor of Education \(B.Ed.\) - Secondary Science and Technology \(120 credits\)](#)
- [section 5.8.2.8: Bachelor of Education \(B.Ed.\) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture \(120 credits\)](#)
- [section 5.8.2.9: 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. This integrated program consists of studies in music to develop musicianship and professional studies in pedagogy, curriculum, and educational foundations organized around school-based field experiences in elementary and secondary music classrooms. Students who have completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies are normally enrolled in a program requiring the completion of 137 credits.

For more information, see:

- [section 5.8.2.11: Concurrent Bachelor of Music \(B.Mus.\) - Major Music Education and Bachelor of Education \(B.Ed.\) - Music Elementary and Secondary \(137 credits\)](#)

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 mcgill.ca/applying, where you can also obtain more information, alternatively please contact:

Admissions Office
 Schulich School of Music, McGill University
 555 Sherbrooke Street West
 Montreal QC H3A 1E3
 Telephone: 514-398-4546
 Email: undergraduateadmissions.music@mcgill.ca
 Website: mcgill.ca/music/admissions/undergraduate

Applicants who have completed a Bachelor of Music degree from a North American 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 mcgill.ca/applying, where you can also obtain more information, alternatively please contact:

Service Point
 Enrolment Services, McGill University
 3415 McTavish Street
 Montreal QC H3A 0C8
 Telephone: 514-398-7878
 Website: mcgill.ca/servicepoint

Program details are available from:

Department of Integrated Studies in Education
 Professor Mindy Carter, Program Director
 Telephone: 514-398-4527
 Email: mindy.carter@mcgill.ca
 Email: advisedise.education@mcgill.ca
 Website: mcgill.ca/dise

5.8.2.4.3 Bachelor of Education (Kindergarten and Elementary) (120 credits)

The aim of the B.Ed. Kindergarten and Elementary program is to prepare strong teachers for the elementary school level. This integrated 120-credit program (150 credits for out-of-province students) consists of academic studies to provide a generalist background in elementary school subjects and professional studies in pedagogy, curriculum, and educational foundations organized around school-based field experiences.

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 5.8.2.12: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education \(120 credits\)](#)
- [section 5.8.2.13: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#)
- [section 5.8.2.14: 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. Telephone: 514-398-6544.)
- [section 5.8.2.15: 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 infodise.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 5.8.2.16: Bachelor of Education \(B.Ed.\) - Teaching English as a Second Language - TESL Elementary and Secondary \(120 credits\)](#)
- [section 5.8.2.17: 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 5.8.2.13: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#)
- [section 5.8.3.2: Certificate \(Cert.\) Education for First Nations and Inuit \(60 credits\)](#)
- [section 5.8.3.6: Certificate \(Cert.\) Indigenous Language and Literacy Education \(30 credits\)](#)
- [section 5.8.3.4: Certificate \(Cert.\) Middle School Education in Indigenous Communities \(30 credits\)](#)
- [section 5.8.3.5: Certificate \(Cert.\) First Nations and Inuit Educational Leadership \(30 credits\)](#)
- [section 5.8.3.3: Certificate \(Cert.\) First Nations and Inuit Student Personnel Services \(30 credits\)](#)
- [section 5.8.3.1: Bachelor of Education for Certified Teachers - Elementary Education: Indigenous Education \(90 credits\)](#)

5.8.2.4.5.1 Graduate Programs

At the graduate level, the Department offers M.A. programs with thesis and non-thesis options in the following areas: Education and Society, Educational Leadership, and Second Language Education.

The Department offers a Master of Arts in Teaching and Learning (MATL), leading to teacher certification at the secondary level for those meeting specific criteria. See mcgill.ca/dise/grad.

The Department also offers graduate certificates in Leadership, Teaching English as a Second Language and Pédagogie de l'Immersion Française. See mcgill.ca/dise/grad.

5.8.2.5 Bachelor of Education (B.Ed.) - Secondary English (120 credits)

The Bachelor of Education (B.Ed.) - Secondary English program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this eCalendar section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secenglish>.

The Secondary English program provides students with the learning opportunities needed to become proficient English teachers.

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.

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
WCOM 250	(3)	Research Essay and Rhetoric

* 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 and Indigenous Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices
EDES 361	(3)	Teaching Secondary English 1
EDES 461	(3)	Teaching Secondary English 2
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below:

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary English Subject Area (51 credits)

Option 1

51 credits distributed as follows:

Required Course (3 credits)

EDES 366	(3)	Literature for Young Adults
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Complementary Language/Linguistics courses (6 credits)

EDEC 203*	(3)	Communication in Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 350	(3)	Essentials of English Grammar
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
LING 355	(3)	Language Acquisition 1
WCOM 250*	(3)	Research Essay and Rhetoric

* Note: Students may take either WCOM 250 OR EDEC 203 for credit but not both

Complementary Courses

42 credits distributed as follows (including at least one course in Shakespeare):

Literature (30 credits)

A minimum of 15 credits must be at the 300 level or higher, chosen from the English Department undergraduate complementary course list (<http://www.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 (9 credits)

A minimum of 3 credits must be 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 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

Option 2 (51 credits)

51 credits distributed as follows:

Required Course (3 credits)

EDES 366	(3)	Literature for Young Adults
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Complementary Language/Linguistics courses. (6 credits)

Select 6 credits from the following course list:

EDEC 203*	(3)	Communication in Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 350	(3)	Essentials of English Grammar
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics
LING 355	(3)	Language Acquisition 1
WCOM 250*	(3)	Research Essay and Rhetoric

*Note: Students may take either WCOM 250 OR EDEC 203 for credit but not both

Complementary Courses

27 credits, distributed as follows (including at least one course in Shakespeare):

Literature (18 credits)

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.

5.8.2.6 Bachelor of Education (B.Ed.) - Secondary Mathematics (120 credits)

The Bachelor of Education (B.Ed.) – Secondary Mathematics program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

Note: Students entering this program from CEGEP or with Advanced Standing should have a strong background in their Mathematics courses. Students entering from CEGEP or with Advanced Standing without having completed two calculus courses and one linear algebra course (MATH 133, MATH 140, and MATH 141 or their equivalents) will be required to make up any deficiencies in these courses over and above the degree requirements.

The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level.

This integrated program consists of courses in Education (including field experiences) and courses in the subject area of the teaching specialization. Students also take 6 credits of free electives. For all teacher education programs, course sequencing is highly structured. For this reason, the advising information in this eCalendar section must be used in conjunction with the summary companion document (Program Overview) found at <http://www.mcgill.ca/dise/progs/secmath>.

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.

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
WCOM 250	(3)	Research Essay and Rhetoric

Required Courses (60 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 350	(3)	Classroom Practices
EDES 353	(3)	Teaching Secondary Mathematics 1
EDES 453	(3)	Teaching Secondary Mathematics 2
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below.

Multicultural Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary Mathematics Subject Area (51 credits)

Secondary Mathematics students complete 51 credits selected in consultation with the Program Adviser in one of two options.

Option 1

21 credits from the list of "Required Mathematics Courses" and

30 credits from the list of "Complementary Mathematics Courses"

Or

Option 2:

21 credits from the list of "Required Mathematics Courses" and

15 credits from the list of "Complementary Mathematics Courses"

And

15 credits of designated courses in another unofficial "teachable" subject area (English, Social Sciences, or Science and Technology - see an adviser for courses).

Required Mathematics Courses (21 credits)

MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 228	(3)	Classical Geometry
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 338	(3)	History and Philosophy of Mathematics

Complementary Mathematics Courses

(30 OR 15 credits)

3 credits from:

MATH 235*	(3)	Algebra 1
MATH 242*	(3)	Analysis 1

* Should be taken in Year 1 or Year 2

27 credits from the list below for Secondary Mathematics Option 1 students or

12 credits from the list below for Secondary Mathematics Option 2 students

COMP 202	(3)	Foundations of Programming
COMP 230	(3)	Logic and Computability
EDTL 520	(3)	Perspectives on Knowledge in Mathematics and Science
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 316	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 318**	(3)	Mathematical Logic
MATH 319	(3)	Partial Differential Equations

MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Mathematics
MATH 346	(3)	Number Theory
MATH 348	(3)	Euclidean Geometry
MATH 417	(3)	Linear Optimization
MATH 423	(3)	Applied Regression
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHIL 210**	(3)	Introduction to Deductive Logic 1

** Students cannot receive credit for both.

Unofficial "Teachable" Subject Area

15 credits

15 credits of designated courses for Secondary Mathematics Option 2 students (English, Social Sciences, or Science and Technology - see an adviser for course selection)

Electives (6 credits)

Note: Students who have chosen to do 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.

5.8.2.7 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. 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/secscitech>.

The Secondary Science and Technology program provides students with the subject matter expertise in the Living World, Earth and Space, the Material World, and the Technological World needed to teach the secondary science curriculum in Quebec schools.

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."

Note: Students entering this program from CEGEP or with Advanced Standing should have completed two biology courses, two chemistry courses, two math courses and two physics courses at the CEGEP level. Students entering from CEGEP without having completed these prerequisites (or their equivalents) will be required to make up any deficiencies in these courses over and above the degree requirements.

Freshman Program - Basic Sciences

Freshmen in the Science and Technology program must complete the 29 to 30 credits of Basic Science courses listed below in their first year of studies.

Fall term: BIOL 111, CHEM 110, MATH 139 or MATH 140 or MATH 150, PHYS 101 or PHYS 131

Winter term: BIOL 112, CHEM 120, MATH 141 or MATH 151, PHYS 102 or PHYS 142

Students should consult a program adviser for guidance on which Fall and Winter term Math and Physics courses should be taken. Course choices depend on a student's background in science and plans for upper-level Physics courses.

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
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.

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
WCOM 250	(3)	Research Essay and Rhetoric

Required Courses (60 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 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 and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners

EDPI 341 (3) Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below:

Equity Education

3 credits from:

EDEC 248 (3) Equity and Education
 EDEC 249 (3) Global Education and Social Justice

Secondary 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

3 credits of History of Science:

EDTL 520 (3) Perspectives on Knowledge in Mathematics and Science

3 credits of the Material World:

CHEM 281 (3) Inorganic Chemistry 1

3 credits of the Living World:

BIOL 206 (3) Methods in Biology

3 credits of the Technological World:

EDTL 525 (3) Teaching Science and Technology

Core Complementary Courses (10 credits)

The Living World

3 credits from:

BIOL 200 (3) Molecular Biology
 LSCI 202 (3) Molecular Cell Biology

The Material World

3 credits from:

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics

4 credits from:

CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 232	(4)	Organic Chemistry Principles

Complementary Courses (26 credits)

At least 9 of the 26 credits must be taken at the 300 level or above, distributed as follows:

- 3 to 15 credits from the Living World complementary list;
- 3 to 18 credits from Earth and Space complementary list;
- 3 to 18 credits from Earth and Space - Environment complementary list;
- 0 to 15 credits from the Material World complementary list;
- 3 to 12 credits from the Technological World complementary list.

Living World

Students select a minimum of 3 credits to a maximum of 15 credits from the following lists:

Cell and Molecular Biology

BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 313	(3)	Eukaryotic Cell Biology

Human and Organismal Biology

BIOL 205	(3)	Functional Biology of Plants and Animals
EDKP 292	(3)	Nutrition and Wellness
EDKP 395	(3)	Exercise Physiology
NUTR 207	(3)	Nutrition and Health
NUTR 307	(3)	Metabolism and Human Nutrition
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Populations, Ecosystems, and Evolution

BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 240	(3)	Monteregian Flora
BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 352	(3)	Dinosaur Biology

ENVB 305	(3)	Population and 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 320	(3)	Introductory Astrophysics

Earth and Space - Environment

Students select a minimum of 3 credits to a maximum of 18 credits from the following list:

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 221	(3)	Environment and Health

The Material World

Students select a maximum of 15 credits from the following list:

Note: Students who plan to teach Grade 11 Chemistry or Physics should select the maximum 15 credits from this list:

CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Experimental Chemistry 1
CHEM 429	(3)	Chemistry of Energy, Storage and Utilization.
MATH 222	(3)	Calculus 3
PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 271	(3)	Introduction to Quantum Physics
PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 346	(3)	Majors Quantum Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern 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)

5.8.2.8 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture (120 credits)

The Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture 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, 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 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.

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
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
WCOM 250	(3)	Research Essay and Rhetoric

Required Courses (60 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education

EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDER 372	(3)	Ethics and Religious Culture (Secondary)
EDES 334	(3)	Teaching Secondary Social Studies 1
EDES 350	(3)	Classroom Practices
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below.

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary Social Sciences - History & Citizenship, Ethics & Religious Culture Subject Area (51 credits)

Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture students complete 51 credits selected in consultation with the Program Adviser with the following specifications:

Required Courses

History

9 credits:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303	(3)	History of Quebec

Complementary Courses (42 credits)

History and Citizenship (24 credits)

At least 9 of the 24 credits must be taken at the 300 or 400 level, distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

6 credits of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health.

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

6-12 credits selected from the following list. Students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI:

ANTH 338	(3)	Indigenous Studies of Anthropology
CANS 200	(3)	Understanding Canada
ECON 205	(3)	An Introduction to Political Economy
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 219	(3)	Current Economic Problems: Topics
ECON 221	(3)	Economic History
ECON 313	(3)	Economic Development 1
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
POLI 212	(3)	Government and Politics - Developed World
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality
POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

Ethics and Religious Culture

18 credits as specified below.

6 credits from:

EDER 309	(3)	The Religious Quest
RELG 203	(3)	Bible and Western Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 252	(3)	Hinduism and Buddhism
RELG 309	(3)	World Religions and Cultures They Create

6 credits from:

EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Human Rights and Ethics in Practice
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues

6 credits from:

CATH 200	(3)	Introduction to Catholicism
EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 319	(3)	Teaching the Holocaust
RELG 270	(3)	Religious Ethics and the Environment

Electives (6 credits)

6 credits

5.8.2.9 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.

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
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
WCOM 250	(3)	Research Essay and Rhetoric

Required Courses (60 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 254	(1)	Second Professional Seminar (Secondary)
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	Fourth Year Professional Seminar (Sec)
EDES 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 and Secondary)
EDFE 254	(3)	Second Field Experience (Secondary)
EDFE 351	(8)	Third Field Experience (Secondary)
EDFE 451	(7)	Fourth Field Experience (Secondary)
EDPE 300	(3)	Educational Psychology
EDPE 304	(3)	Measurement and Evaluation
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (3 credits)

3 credits selected as described below:

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Secondary Social Sciences - History and Citizenship, Geography Subject Area (51 credits)

Secondary Social Sciences - History and Citizenship, Geography students complete 51 credits selected in consultation with the Program Adviser with the following specifications:

Required Courses

History

9 credits selected from:

HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 303	(3)	History of Quebec

Complementary Courses (42 credits)

History and Citizenship (24 credits)

At least 9 of the 24 credits must be taken at the 300 or 400 level, distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

6 credits of history courses on social history, gender history, identity, culture, religion and values, political life and institutions, conflict, wealth and poverty, science, and health

(Students may consult the course lists for History programs offered by the Faculty of Arts for guidance on course choices.)

6-12 credits selected from the following list (students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI):

ANTH 338	(3)	Indigenous Studies of Anthropology
CANS 200	(3)	Understanding Canada
ECON 205	(3)	An Introduction to Political Economy
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 219	(3)	Current Economic Problems: Topics
ECON 221	(3)	Economic History
ECON 313	(3)	Economic Development 1
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 203	(3)	Knowledge, Ethics and Environment
POLI 212	(3)	Government and Politics - Developed World
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behaviour in Canada
POLI 227	(3)	Developing Areas/Introduction
POLI 243	(3)	International Politics of Economic Relations
POLI 244	(3)	International Politics: State Behaviour
POLI 341	(3)	Foreign Policy: The Middle East
POLI 345	(3)	International Organizations
POLI 354	(3)	Approaches to International Political Economy
POLI 360	(3)	Security: War and Peace
POLI 362	(3)	Political Theory and International Relations
POLI 423	(3)	Politics of Ethno-Nationalism
POLI 435	(3)	Identity and Inequality

POLI 442	(3)	International Relations of Ethnic Conflict
POLI 450	(3)	Peacebuilding
POLI 474	(3)	Inequality and Development

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 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)

5.8.2.10 Bachelor of Arts(Education) - Major Education in Global Contexts (90 credits)

The B.A.(Education): Major Education in Global Contexts is intended to equip students with a strong grounding in educational theory, issues and challenges, with an emphasis on building in-depth understandings on key issues facing education in diverse global contexts. A foundational program, it provides a variety of pathways for future study or employment for our students in a range of government, educational, industry and community organizations. Students complete a 54 credit major in Education in Global Contexts addressing the core of the program, with the addition of an 18 credit minor in a complementary discipline (choice of three approved minors), and complete the degree with 18 credits of electives. The program includes an internship and opportunities for applied research. This program is a general degree mirroring the "Liberal Arts" degree, but specifically in the area of Education.

NOTE: This program does not lead to Teacher Certification for formal elementary/secondary classroom teaching in the Province of Quebec.

Freshman Program

Students whose highest level of education is high school (normally out of province) are admitted into Year 0 (U0) to complete the Freshman Program. Freshman students are required to complete 30 credits of introductory (100- or 200- level) courses of the students' choice (in addition to the 90-credit program), verified by an adviser*, for a total of 120 credits. Students will not be granted permission to take first-year (U1) courses if the credits from the Freshman year have not been obtained. In consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. There are no required courses in the Freshman Program, though the department recommends that students use the opportunity to take 100- or 200- level courses in the subject areas that interest them or are relevant to their chosen concentration. As well, the Freshman year offers students the opportunity to explore areas that are not typically taken as a course of study in the program.

The department recommends the following courses:

Courses in the Faculty of Education:

EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDPE 208	(3)	Personality and Social Development
EDPT 204	(3)	Creating and Using Media for Learning

Courses from the French Language Centre:

(Placement tests may be required)

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

Courses Across McGill Faculties:

INDG 200	(3)	Introduction to Indigenous Studies
INTD 200	(3)	Introduction to International Development
RELG 207	(3)	Introduction to the Study of Religions
SOCI 210	(3)	Sociological Perspectives
WCOM 250	(3)	Research Essay and Rhetoric

For examples of courses suitable for Freshman Year 0 students, see the Faculty of Education approved freshman courses (<https://www.mcgill.ca/dise/freshmancourses>).

If you are admitted into McGill with advanced standing (International Baccalaureate, Advanced Placement, etc.), those credits may be used to fulfill some or all of your Freshman requirements.

* Freshman Advising:

All Freshman students must have their Fall and Winter course selections verified prior to the start of classes. This can be done by email or by attending the group advising session in late August. To verify your course selection by email, send a message to edgc.advise@mcgill.ca with the subject "B.A.(Education) Freshman Course Selection" including your student ID number and Adviser name.

Required Courses (42 credits)

EDEC 202	(3)	Effective Communication
EDEC 221	(3)	Leadership and Group Skills
EDEC 233	(3)	Indigenous Education
EDEC 249	(3)	Global Education and Social Justice
EDEC 260	(3)	Philosophical Foundations
EDEM 220	(3)	Contemporary Issues in Education
EDER 461	(3)	Society and Change
EDGC 201	(3)	Media, Learning, and Digital Youth Cultures
EDGC 299	(3)	Research Methods
EDGC 301	(3)	Program Design and Evaluation
EDGC 398	(0)	Internship: Education in Global Contexts
EDGC 399	(3)	Education in Global Contexts Internship Project
EDGC 400	(3)	21st Century Learning
EDGC 499	(3)	Critical Research Inquiry
EDPE 300	(3)	Educational Psychology

Complementary Courses (30 credits)

12 credits from the following; no more than 9 credits from one specific list. Other courses on these topics from the Faculty of Education or other Faculties may be selected subject to approval of program adviser.

Leadership and Social Change

EDGC 300*	(3)	Special Topics
EDGC 312	(3)	Understanding Teacher Leadership

EDGC 313	(3)	Cultivating Process of Social Transformation
EDGC 411	(3)	Affect, Education, and Social Change
EDGC 412	(3)	Historical Knowledge: Tool for Agents of Change

* when topic is relevant to this list.

Ethics, Wellbeing, and Diverse Knowledge Approaches

EDER 494	(3)	Human Rights and Ethics in Practice
EDGC 222	(3)	Integrating Arts into STEM
EDGC 300*	(3)	Special Topics
EDGC 324	(3)	Physical Health and Wellbeing in Education
EDGC 423	(3)	Human Knowledge Claims and Education
EDSL 390	(3)	Teaching English as a Second Language in the Community

* when topic is relevant to this list.

Critical Issues in Education

EDGC 200	(3)	Knowledge through the Arts
EDGC 233	(3)	Learning in Out-of-School Contexts
EDGC 300*	(3)	Special Topics
EDGC 335	(3)	Eco-Justice and Sustainability in Education
EDGC 336	(3)	Race, Class, and Power in Education in Global Contexts
EDGC 337	(3)	Gendered Identities, Social Learning
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 500	(3)	Foundations and Issues in Second Language Education

* when topic is relevant to this list.

Children and Youth

EDGC 244	(3)	Investigating Children's Reasoning
EDGC 300*	(3)	Special Topics
EDGC 348	(3)	Global Perspectives of Early Childhood Education
EDGC 444	(3)	Critical Contexts of Youth Development and Wellbeing

* when topic is relevant to this list.

One of the following approved minors:

B.Com.; Minor in Management for Non-Management Students

B.A.; Minor Concentration in International Development Studies

B.A.; Minor Concentration in Educational Psychology

Subject to approval of program adviser, students in a minor offered by the Faculty of Education (i.e., Educational Psychology) may be granted permission to complete a second minor from the above list in order to fulfill the requirement of 18 credits of elective courses.

Elective Courses (18 credits)

18 credits of electives selected from Faculty of Education offerings. Exceptionally, students may be permitted to take courses elsewhere in the University with permission of the program adviser.

5.8.2.11 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 from any course with a prefix of MUIT or MUGT.

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
EDEA 208	(1)	Second Professional Seminar (Music)
EDEA 407	(3)	Final Year Professional Seminar Music
EDEA 442	(3)	Methods in Music Education 1
EDEA 472	(3)	Methods in Music Education 2
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 260	(3)	Philosophical Foundations
EDES 350	(3)	Classroom Practices
EDFE 205	(2)	First Field Experience (Music)
EDFE 208	(3)	Second Field Experience (Music)
EDFE 308	(8)	Third Field Experience (Music)
EDFE 407	(7)	Fourth Field Experience (Music)
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

Required Indigenous Studies Course (3 credits)

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

5.8.2.11.1 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 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
Website: 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 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: mcgill.ca/servicepoint

Program details are available from:

Telephone: 514-398-4527
Email: advisedise.education@mcgill.ca
Website: mcgill.ca/dise

5.8.2.12 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.

EDEE 325	(3)	Children's Literature
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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
WCOM 250	(3)	Research Essay and Rhetoric

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 and Indigenous 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 and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (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
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	Introduction to the Study of Religions
RELG 309	(3)	World Religions and Cultures They Create
RELG 341	(3)	Introduction: Philosophy of Religion

Kindergarten and Elementary Teaching Methods - Art, Drama, or Music

3-6 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists

Kindergarten & Elementary Teaching Methods - Physical Education or English Second Language

0-3 credits from:

Students may select both their Methods courses from the list above for Art, Drama, or Music.

* Note: EDSL 447 has EDSL 350 as a prerequisite.

EDKP 332	(3)	Physical Education Curriculum and Instruction
EDSL 447*	(3)	Methods in TESL 1

Kindergarten & Elementary Education - Subject Areas (18 credits)

18 credits selected in consultation with the Program Adviser as follows:

9 credits in "teachable" subject area courses of the elementary school curriculum from the lists below for Art, English, Ethics and Religious Culture, French, Mathematics, Music, Natural Sciences, Physical Education, and Social Studies.

And

9 credits, 3 credits from each of any three subject areas not chosen above.

No more than 9 credits may be selected from any single course list.

Art

Students may select up to 9 credits from this list and from Art History (ARTH) courses.

EDEA 204	(3)	Drawing
EDEA 205	(3)	Painting 2
EDEA 241	(3)	Basic Art Media for Classroom
EDEA 296	(3)	Basic Design

EDEA 304	(3)	Painting 3
EDEA 307	(3)	Drawing 2
EDEA 410	(3)	Aesthetics and Art for the Classroom
EDEA 496	(3)	Sculpture 1

English

Students may select up to 9 credits from this list.

CLAS 203	(3)	Greek Mythology
COMS 200	(3)	History of Communication
COMS 210	(3)	Introduction to Communication Studies
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
EDEE 325*	(3)	Children's Literature
EDES 366	(3)	Literature for Young Adults
EDSL 350	(3)	Essentials of English Grammar
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 215	(3)	Introduction to Shakespeare
ENGL 225	(3)	American Literature 1
ENGL 226	(3)	American Literature 2
ENGL 227	(3)	American Literature 3
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 230	(3)	Introduction to Theatre Studies
ENGL 237	(3)	Introduction to Study of a Literary Form
ENGL 279	(3)	Introduction to Film as Art
ENGL 280	(3)	Introduction to Film as Mass Medium
ENGL 314	(3)	20th Century Drama
ENGL 345	(3)	Literature and Society
ENGL 347	(3)	Great Writings of Europe 1
ENGL 349	(3)	English Literature and Folklore 1
ENGL 388	(3)	Studies in Popular Culture
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

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 252	(3)	Understanding and Teaching Jewish Life
EDER 309	(3)	The Religious Quest

EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
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 270	(3)	Religious Ethics and the Environment
RELG 271	(3)	Religion and Sexuality

French

Students may choose up to 9 credits of French as a Second Language (FRSL) courses and/or French (FREN) courses and/or:

EDSL 341	(3)	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
MUJZ 160*	(3)	Jazz Materials 1
MUJZ 161*	(3)	Jazz Materials 2

Natural Sciences

Students may choose up to 9 credits from this list.

ATOC 181	(3)	Introduction to Atmospheric Science
ATOC 182	(3)	Introduction to Oceanic Sciences
ATOC 184	(3)	Science of Storms
ATOC 185	(3)	Natural Disasters
BIOL 115	(3)	Essential Biology
CHEM 180	(3)	World of Chemistry: Environment

CHEM 181	(3)	World of Chemistry: Food
CHEM 182	(3)	World of Chemistry: Technology
CHEM 183	(3)	World of Chemistry: Drugs
EDEC 374	(3)	Education and the Environment
EDEE 473	(3)	Ecological Studies
EPSC 180	(3)	The Terrestrial Planets
EPSC 181	(3)	Environmental Geology
EPSC 185	(3)	Natural Disasters
EPSC 201	(3)	Understanding Planet Earth
PHYS 180	(3)	Space, Time and Matter
PHYS 181	(3)	Everyday Physics
PHYS 182	(3)	Our Evolving Universe
PHYS 183	(3)	The Milky Way Inside and Out

Physical Education

Students may take up to 9 credits of Physical Education (EDKP) courses from the list with the permission of the Department of Kinesiology and Physical Education.

* Note: EDKP 292 is available as an academic Physical Education course. All other EDKP courses are restricted.

EDKP 204	(3)	Health Education
EDKP 208	(3)	Biomechanics and Motor Learning
EDKP 261	(3)	Motor Development
EDKP 292*	(3)	Nutrition and Wellness
EDKP 498	(3)	Sport Psychology

Social Studies

Students may take up to 9 credits from this list below which represents a balance of History (HIST), Geography (GEOG), and Citizenship courses offered by several departments. Anthropology (ANTH) and Sociology (SOCI) courses not on the list below may not be counted as Social Studies courses in the program requirements. Students may take them as electives only.

Students may select additional History courses as follows:

Any 3 credits in European History

Any 3 credits in Asian, African, or Latin American History

Any 3 credits in any topic or field of history

* 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)	Understanding 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)

5.8.2.13 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'Enseignement supérieur. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in Elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.).

Students admitted to the First Nations and Inuit Studies program in U0 should consult with their program adviser for guidance on course selection. More information is also found for newly admitted students to the B.Ed. Kindergarten and Elementary Education program on the Faculty of Education website at <http://www.mcgill.ca/dise/ofnie/teachcert/kelemfnie/current>.

Required Courses (78 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 216	(0)	Indigenous Language Requirement
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEC 262	(3)	Media, Technology and Education
EDEC 321	(3)	Visions and Realities of Indigenous Education
EDEC 405	(3)	Fourth Year Professional Seminar (K/Elem)
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 253	(3)	Kindergarten Classroom Pedagogy
EDEE 260	(3)	Reading Methods - Kindergarten/Elementary
EDEE 270	(3)	Elementary School Science
EDEE 280	(3)	Geography, History and Citizenship Education
EDEE 283	(3)	Social Studies Pedagogy
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDEE 355	(3)	Classroom-based Evaluation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)

EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (36 credits)

36 credits of courses selected as described below:

Language - Complementary Component

6 credits from the following language courses chosen according to language group and fluency:

Algonquin

EDEC 270	(3)	Algonquin Heritage Language 1
EDEC 271	(3)	Algonquin Heritage Language 2
EDEC 272	(3)	Algonquin Language 1
EDEC 273	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut

EDEC 289	(3)	Inuktitut Orthography and Grammar
EDEC 403	(3)	The Dialects of Inuktitut

Mi'gmaq

EDEC 237	(3)	Mi'gmaq Heritage Language 1
EDEC 238	(3)	Mi'gmaq Heritage Language 2
EDEC 239	(3)	Mi'gmaq Language 1
EDEC 240	(3)	Mi'gmaq Language 2

Mohawk

EDEC 275	(3)	Mohawk Heritage Language 1
EDEC 276	(3)	Mohawk Heritage Language 2
EDEC 277	(3)	Mohawk Language 1
EDEC 278	(3)	Mohawk Language 2

Naskapi

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2

Education Component

3 credits from:

EDEC 233	(3)	Indigenous Education
EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions

Science Component

3 credits from:

EDEC 374	(3)	Education and the Environment
EDEE 273	(3)	Elementary School Science 2

Religion Component

3 credits from:

EDER 309	(3)	The Religious Quest
EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Human Rights and Ethics in Practice

Kindergarten and Elementary Subject Area Component

9 credits from the subject course lists below

Art

EDEA 204	(3)	Drawing
EDEA 205	(3)	Painting 2
EDEA 241	(3)	Basic Art Media for Classroom
EDEA 242	(3)	Cultural Skills 1
EDEA 243	(3)	Cultural Skills 2
EDEA 296	(3)	Basic Design
EDEA 304	(3)	Painting 3
EDEA 307	(3)	Drawing 2
EDEA 410	(3)	Aesthetics and Art for the Classroom
EDEA 496	(3)	Sculpture 1

English

EDEA 394	(3)	Creative Dramatics for Classroom
EDEE 325	(3)	Children's Literature
EDEE 371	(3)	Integrating Indigenous Storytelling and Creative Writing
EDES 366	(3)	Literature for Young Adults
EDSL 350	(3)	Essentials of English Grammar

Ethics and Religious Culture

EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 309	(3)	The Religious Quest
EDER 395	(3)	Moral Values and Human Action
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Human Rights and Ethics in Practice

French

EDSL 341	(3)	Littérature et littérature jeunesse en FLS
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Music

EDEA 341	(3)	Listening for Learning
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Natural Science

EDEC 374	(3)	Education and the Environment
EDEE 370	(3)	Traditional Indigenous Life Skills
EDEE 373	(3)	Traditional Healing
EDEE 473	(3)	Ecological Studies

Physical Education

EDKP 204	(3)	Health Education
EDKP 208	(3)	Biomechanics and Motor Learning
EDKP 241	(3)	Indigenous Physical Activities
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness

Social Studies

EDEE 383	(3)	Oral and Family History
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Advanced Indigenous Languages

EDEC 341	(3)	Intermediate Indigenous Heritage Language
EDEC 342	(3)	Intermediate Indigenous Language
EDEC 343	(3)	Advanced Indigenous Heritage Language
EDEC 344	(3)	Advanced Indigenous Language

Methods and Curriculum and Pedagogy Component

12 credits,

6-9 credits from the following

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
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EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDSL 247	(3)	Second Language Education in Indigenous Communities
EDSL 300	(3)	Foundations of L2 Education
EDSL 370	(3)	Issues and Practices in Teaching Indigenous Languages
EDSL 390	(3)	Teaching English as a Second Language in the Community

3-6 credits from the following

EDEC 244	(3)	Issues in Aboriginal Education
EDEC 263	(3)	Information Communication Technology in Indigenous Literacy
EDEC 302	(3)	Language and Learning - Curriculum
EDEC 313	(3)	Indigenous Land-Based Pedagogy
EDEC 591	(3)	Cultural Values and Socialization
EDEE 245	(3)	Orientation to Education
EDEE 444	(3)	First Nations and Inuit Curriculum
EDPC 209	(3)	Basic Crisis Intervention Skills
EDPI 441	(3)	Students with Behaviour Difficulties
EDPI 442	(3)	Students with Learning Difficulties

Elective Courses (6 credits)

6 credits chosen from the Subject Area and/or the Methods and Curriculum and Pedagogy courses listed above. No more than 9 credits can be chosen from any one subject area.

5.8.2.14 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.

The Kindergarten and Elementary 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.

The Jewish Studies option is addressed to students enrolled in the Kindergarten and Elementary program who wish to teach Jewish studies as well as general studies. Students are encouraged to acquire a strong background in Bible, Jewish prayer, Jewish holidays, and Jewish history prior to registering in the option. Students lacking the ability to teach in Hebrew should consider spending a semester at an Israeli university or seek other avenues to improve their language skills.

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 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.

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
WCOM 250	(3)	Research Essay and Rhetoric

Required Courses (87 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 and Indigenous Education
EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
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 320	(3)	Visions and Realities of Jewish Education
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners

EDPI 341	(3)	Instruction in Inclusive Schools
JWST 211	(3)	Jewish Studies I: Biblical Period

Complementary Courses (30 credits)

Equity Education

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

Teaching Methods (12 credits)

3 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists

9 credits from:

EDER 252	(3)	Understanding and Teaching Jewish Life
EDER 318	(3)	Teaching the Jewish Liturgy
EDER 319	(3)	Teaching the Holocaust
EDER 401	(3)	Teaching Biblical Literature - Jewish School 1

Kindergarten and Elementary - Subject Area: Jewish Studies (15 credits)

In consultation with the Jewish Studies option Program Adviser, students select 15 credits from the undergraduate course offerings of the Department of Jewish Studies, Faculty of Arts.

Electives (3 credits)

5.8.2.14.1 B.Ed. Kindergarten and Elementary Program (Jewish Studies Option)

Students who wish to follow this option should contact:

Professor Eric Caplan
 Department of Integrated Studies in Education
 Faculty of Education
 Telephone: 514-398-6544
 Email: eric.caplan@mcgill.ca

5.8.2.15 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Pédagogie de l'Immersion Française (120 credits)

The Kindergarten and Elementary Pédagogie de l'Immersion Française major is designed to meet the needs of students enrolled in the B.Ed. Kindergarten and Elementary program who wish to teach in French immersion contexts. It consists of 30 credits of French and second language education courses embedded within the regular B.Ed. Kindergarten and Elementary program. In addition, certain other course sections may be offered in French.

Please note that graduates of teacher education programs are recommended by the University to the Quebec Ministry of Education for Quebec teacher certification. For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs," "Undergraduate Education Programs," and "Quebec Teacher Certification".

Competency in French

Students wishing to follow the Kindergarten and Elementary Pédagogie de l'Immersion Française major must demonstrate a high level of competency in French by: providing proof of graduation from a French language secondary/high school (not French Immersion) or CEGEP; or by placing at the FRSL 431 level or higher on the French Language Placement Test (FLPT) at the French Language Centre (McGill).

For more information on the FLPT, including test dates, see www.mcgill.ca/flc/registration/placement-tests/placement-tests-dates-0.

Pédagogie de l'Immersion Française (PIF) Freshman Year (U0)

Students from outside of Quebec may be required to complete the Freshman en français year (offered through the French Language Centre, Faculty of Arts). Students undertaking the Freshman en français year may also be conditionally accepted into the PIF program, if they have a strong background in French (ex. Grade 12 French Immersion Program) and achieve an acceptable grade in the FLPT.

Those students who are conditionally accepted will be transferred to the PIF program following successful completion of their freshman year (passing grade in level appropriate FRSL courses). Unsuccessful candidates will remain registered in the regular B.Ed. Kindergarten/Elementary stream.

Students should contact advisedise.education@mcgill.ca to indicate their desire to transfer into this major and will need to provide proof of French Language Competency, as outlined above for the transfer to be accepted/processed.

Required Courses (102 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 and Indigenous 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 and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306**	(8)	Third Field Experience (Kindergarten/Elementary)
EDFE 406**	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 300	(3)	Foundations of L2 Education
EDSL 301	(3)	Étude de la langue
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 341	(3)	Littératie et littérature jeunesse en FLS

Kindergarten and Elementary Teaching Methods

EDSL 345	(3)	Enseignement du FLS-immersion
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EDSL 444 (3) Laboratoire d'enseignement en français langue seconde

* Students must register in the sections designated as 'Bilingual section'.

** Note: At least one of these Field Experiences must be completed in a French immersion setting.

French Language Proficiency Requirement

EDSL 501 (0) Attestation de maîtrise langue française

Complementary Courses (12 credits)

12 credits selected as described below:

Equity Education

3 credits from:

EDEC 248 (3) Equity and Education
EDEC 249 (3) Global Education and Social Justice

Ethics and Religious Culture

3 credits from:

EDER 309 (3) The Religious Quest
RELG 204 (3) Judaism, Christianity and Islam
RELG 207 (3) Introduction to the Study of Religions
RELG 309 (3) World Religions and Cultures They Create
RELG 341 (3) Introduction: Philosophy of Religion

French

6 credits selected from courses with a FREN or FRSL (400 level, except 407 or 408) prefix QCST 336 or POLI 336, in consultation with an adviser and in keeping with individual student's French background.

Elective Courses (6 credits)

The following courses are suggested:

EDEA 332 (3) Art Curriculum and Instruction - Elementary
EDEA 342 (3) Curriculum and Instruction in Drama Education
EDEA 345 (3) Music Curriculum and Instruction for Generalists
EDEE 325 (3) Children's Literature
EDKP 332 (3) Physical Education Curriculum and Instruction
MATH 111 (3) Mathematics for Education Students

5.8.2.16 Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary (120 credits)

The Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120-credit program) for a total of 150 credits.

The program includes studies in language and language learning from linguistic, literary, social, cultural, and psychological perspectives, accompanied by field experiences. It prepares students to teach English as a Second Language (ESL) at both the elementary school level (including regular and intensive ESL) and the secondary school level (including regular ESL and ESLA - English Second Language Arts), and provides a base for adult and other ESL teaching.

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 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 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. In Quebec, ESL is taught within the French school system. Thus, proficiency in French is an asset for student teaching placements, and is a requirement for employment in Quebec.

Other language courses (selected from CLAS Greek/Latin; EAST Korean/Chinese/Japanese; GERM German; HISP Spanish, ISLA Arabic; ITAL Italian; RUSS Russian/Polish) are also good choices for the Freshman year.

EDEC 203	(3)	Communication in Education
EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
ENGL 201	(3)	Survey of English 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
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

Required Courses (90 credits)

EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDES 350	(3)	Classroom Practices
EDES 361	(3)	Teaching Secondary English 1
EDFE 209	(2)	First Field Experience (TESL)
EDFE 255	(3)	Second Field Experience (TESL)
EDFE 359	(8)	Third Field Experience (TESL)
EDFE 459	(7)	Fourth Field Experience (TESL)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 210	(1)	First Professional Seminar
EDSL 215	(3)	Communication in Education for TESL in Quebec

EDSL 254	(1)	Second Professional Seminar (TESL)
EDSL 300	(3)	Foundations of L2 Education
EDSL 304	(3)	Sociolinguistics and L2 Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 311	(3)	Pedagogical Grammar
EDSL 315	(2)	Third Year Professional Seminar
EDSL 330	(3)	Literacy 1: Teaching Reading in ESL
EDSL 332	(3)	Literacy 2: Teaching Writing in ESL
EDSL 334	(3)	Teaching Oral Skills in ESL
EDSL 350	(3)	Essentials of English Grammar
EDSL 412	(3)	Assessment in TESL
EDSL 415	(3)	Fourth Professional Seminar
EDSL 447	(3)	Methods in TESL 1
EDSL 458	(3)	Methods in TESL 2

Complementary Courses (24 credits)

24 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

5.8.2.17 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 (UO) 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 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. In Quebec, ESL is taught within the French school system. Thus, proficiency in French is an asset for student teaching placements, and is a requirement for employment in Quebec.

Other language courses (selected from CLAS Greek/Latin; EAST Korean/Chinese/Japanese; GERM German; HISP Spanish, ISLA Arabic; ITAL Italian; RUSS Russian/Polish) are also good choices for the Freshman year.

EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
ENGL 201	(3)	Survey of English 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
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

Required Courses (90 credits)

CLAS 336*	(3)	Modern Greek Literature
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 233	(3)	Indigenous Education
EDEC 247	(3)	Policy Issues in Quebec and Indigenous 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)
EDFE 359**	(8)	Third Field Experience (TESL)
EDFE 459**	(7)	Fourth Field Experience (TESL)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
EDSL 210	(1)	First Professional Seminar
EDSL 215	(3)	Communication in Education for TESL in Quebec
EDSL 254	(1)	Second Professional Seminar (TESL)
EDSL 300	(3)	Foundations of L2 Education
EDSL 304	(3)	Sociolinguistics and L2 Education
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 311	(3)	Pedagogical Grammar
EDSL 315	(2)	Third Year Professional Seminar
EDSL 330	(3)	Literacy 1: Teaching Reading in ESL
EDSL 332	(3)	Literacy 2: Teaching Writing in ESL
EDSL 334	(3)	Teaching Oral Skills in ESL
EDSL 350	(3)	Essentials of English Grammar
EDSL 412	(3)	Assessment in TESL
EDSL 415	(3)	Fourth Professional Seminar
EDSL 447	(3)	Methods in TESL 1
EDSL 458	(3)	Methods in TESL 2

* Note: Offered every 3rd year (alternating with CLAS 333, 335).

** Note: At least one of these Field Experiences must be completed in a Hellenic school.

Complementary Courses (30 credits)

30 credits selected as described below:

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists
EDKP 332	(3)	Physical Education Curriculum and Instruction

3 credits from:

LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

3 credits from* FRSL

or

FREN 201	(3)	Le français littéraire (français langue seconde)
FREN 203	(3)	Analyse de textes (français langue seconde)
FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire normative
FREN 250	(3)	Littérature française avant 1800
FREN 251	(3)	Littérature française depuis 1800
FREN 252	(3)	Littérature québécoise

(*selected according to individual student's French proficiency level)

TESL and Greek Language & Culture (18 credits)

12-15 credits of Greek Language and Culture from the following (with adviser's approval);

CLAS 230D1	(3)	Introductory Modern Greek
CLAS 230D2	(3)	Introductory Modern Greek
CLAS 331	(3)	Intermediate Modern Greek 1
CLAS 332	(3)	Intermediate Modern Greek 2
CLAS 335	(3)	Modern Greek Culture and Society
CLAS 498	(3)	Independent Research
HIST 349	(3)	Greece: From Ottoman to the European Union
HIST 368	(3)	Greek History: Classical Period

3-6 credits from (with adviser's approval, other courses may be considered):

ARTH 314	(3)	The Medieval City
CLAS 203	(3)	Greek Mythology
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: 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 5.8.2.13: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#).

5.8.3.1 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.

5.8.3.1.1 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.

5.8.3.2 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 Ilisarniliriniq and various Mi'gmaq, Mohawk, Algonquin and education authorities.

Quebec graduates of this program receive Quebec Ministère de l'Éducation certification to teach at the elementary school level in Indigenous schools.

On completion of the Certificate requirements, trainees may apply for admission to the Bachelor of Education - Kindergarten and Elementary Education - First Nations and Inuit Studies or Bachelor of Education for Certified Teachers program and consult the Program Adviser to determine Advanced Standing.

Time Limit

The time limit for completion of the 60-credit Certificate in Education for First Nations and Inuit is 12 years. The University reserves the right to request that a student retake a course or courses after a five-year period if it is felt that too long a break has occurred in the ongoing nature of the training.

Required Courses (27 credits)

EDEC 201	(1)	First Year Professional Seminar
EDEC 203	(3)	Communication in Education

EDEC 253	(1)	Second Professional Seminar (Kindergarten/Elementary)
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions
EDFE 200	(2)	First Field Experience (K/Elem and Secondary)
EDFE 256	(3)	Second Field Experience (Kindergarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindergarten/Elementary)
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (33 credits)

6 credits from the following language courses according to language group and fluency:

Algonquin

EDEC 270	(3)	Algonquin Heritage Language 1
EDEC 271	(3)	Algonquin Heritage Language 2
EDEC 272	(3)	Algonquin Language 1
EDEC 273	(3)	Algonquin Language 2

Cree

EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2

Inuktitut

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
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

27 credits from one of the three following Stream course lists:

Stream A: Generalist

Stream B: Physical Education

Stream C: Culture and Language

In order to ensure appropriate choices, students select from the list of Complementary Courses in consultation with the Program Adviser.

Stream A: Generalist

27 credits from the following list:

EDEA 242	(3)	Cultural Skills 1
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 260	(3)	Philosophical Foundations
EDEC 262	(3)	Media, Technology and Education
EDEE 223	(3)	Language Arts
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 245	(3)	Orientation to Education
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 253	(3)	Kindergarten Classroom Pedagogy
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

Stream B: Physical Education

21 credits from the following list:

EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEC 262	(3)	Media, Technology and Education
EDEE 223	(3)	Language Arts
EDEE 245	(3)	Orientation to Education
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDKP 204	(3)	Health Education
EDKP 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
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EDKP 217	(3)	Track and Field
EDKP 218	(2)	Volleyball
EDKP 223	(3)	Games 1: Elementary Physical Education
EDKP 229	(1)	Ice Hockey 1

Stream C: Culture and Language

27 credits from the following list:

EDEA 242	(3)	Cultural Skills 1
EDEA 243	(3)	Cultural Skills 2
EDEA 244	(3)	Cultural Skills - Fall
EDEA 245	(3)	Cultural Skills - Winter
EDEA 246	(3)	Cultural Skills - Spring
EDEA 247	(3)	Cultural Skills - Summer
EDEC 263	(3)	Information Communication Technology in Indigenous Literacy
EDEC 342	(3)	Intermediate Indigenous Language
EDEC 344	(3)	Advanced Indigenous Language
EDEE 230	(3)	Elementary School Mathematics 1
EDEE 245	(3)	Orientation to Education
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 270	(3)	Elementary School Science
EDEE 283	(3)	Social Studies Pedagogy
EDEE 332	(3)	Teaching Elementary Mathematics 2
EDEE 347	(3)	Grammar and Composition 1
EDEE 348	(3)	Grammar and Composition 2
EDEE 353	(3)	Third Year Professional Seminar (Kindergarten/Elementary)
EDEE 355	(3)	Classroom-based Evaluation
EDEE 370	(3)	Traditional Indigenous Life Skills
EDEE 371	(3)	Integrating Indigenous Storytelling and Creative Writing
EDEE 373	(3)	Traditional Healing
EDEE 383	(3)	Oral and Family History
EDKP 241	(3)	Indigenous Physical Activities

5.8.3.2.1 Admission to the Certificate in Education for First Nations and Inuit

Those intending to complete the program offered in cooperation with the Kativik Ilisarniliriniq must be fluent and literate in Inuktitut/Inuinnaqtun. Fluency in Algonquin, Cree, Mi'gmaq, Mohawk, or Naskapi is not a condition for acceptance for applicants from these communities, but is considered an asset. Courses are available in some of these languages for those teaching in immersion classes and other teaching situations where a knowledge of the first language is essential.

An applicant will normally be employed as a teacher or as a classroom assistant, have a valid teaching authorization from the appropriate teaching authority or a community education committee, be recommended by the school principal and an officer of the education authority, be recommended by a local community education committee, and be at least 21 years of age. Younger applicants will be considered for admission if they hold a Grade 12 Secondary School Diploma or a Diploma of Collegial Studies. The right of final decision for acceptance of candidates rests with McGill.

5.8.3.3 Certificate (Cert.) First Nations and Inuit Student Personnel Services (30 credits)

This program is offered by the Department of Educational and Counselling Psychology through Office 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.

EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions
EDKP 204	(3)	Health Education
EDPI 211	(3)	Social and Emotional Development

5.8.3.3.1 Admission to Certificate in First Nations and Inuit Student Personnel Services

Admission Requirements

- Fluently speak, read, and write the language of instruction as agreed upon between the *Office of First Nations and Inuit Education* and the Indigenous School Board or Education authority.
- Hold a student adviser position in an Indigenous community. This may be a new appointment concurrent with registration in the program. The position must be sufficient to meet the practicum requirements of the program.
- Be recommended by the local education authority.
- Be at least 21 years of age (except for special permission). By this means, students will qualify for admission as Mature Students under McGill regulations, and thereby not be required to have a Diploma of Collegial Studies (DEC).
- Be recommended and selected by the school administration in collaboration with McGill personnel.

The right of final decision for acceptance of candidates rests with McGill.

5.8.3.4 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

5.8.3.4.1 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.

5.8.3.5 Certificate (Cert.) First Nations and Inuit Educational Leadership (30 credits)

The 30 credit Certificate in First Nations and Inuit Educational Leadership will focus on the following 5 objectives: (1) developing the core competencies of educational leaders; (2) fostering a self-reflective leader able to partner with parents to create community outreach; (3) cultivating awareness of the holistic learning and developmental cycles of the child and the role of the educational leader in enhancing that development; (4) maintaining the inter-connectedness and continuity of community and cultural values and aspirations within the structure of the administration of the school and other educational milieu; and (5) understanding and supporting the pedagogical objectives and the administrative framework of the educational context and system.

Required Courses (18 credits)

EDEC 203	(3)	Communication in Education
EDEC 222	(3)	Personnel Management and Group Skills
EDEC 311	(6)	Resource Management
EDEC 312	(3)	Practicum in Educational Leadership
EDEM 502	(3)	Indigenous Family Dynamics and Supporting Institutions

Complementary Courses (12 credits)

12 credits from the list below or any other course approved by the Director of Programs in First Nations and Inuit Education.

EDEC 230	(3)	Conflict Resolution
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EDEC 233	(3)	Indigenous Education
EDEC 244	(3)	Issues in Aboriginal Education
EDEC 262	(3)	Media, Technology and Education
EDEE 245	(3)	Orientation to Education
EDEE 340	(3)	Special Topics: Cultural Issues
EDES 365	(3)	Experiences in Communications

5.8.3.5.1 Admission to the Certificate in First Nations and Inuit Educational Leadership

Students admitted to this program will be recommended by their communities. They must be mature students (21 years of age), or hold a Secondary V diploma or equivalent. Students must speak, read, and write fluently the language of instruction as agreed upon between the unit and the Indigenous School Board or Education Centre. For Nunavik applicants, students must have experience in a Nunavik educational or community organization. The right of final decision for acceptance of candidates rests with McGill.

5.8.3.6 Certificate (Cert.) Indigenous Language and Literacy Education (30 credits)

This 30-credit program is designed for Algonquin, Cree, Inuit, Mi'kmaq, and Kanienkehaka (Mohawk) students who wish to gain a deeper understanding of their Indigenous language, especially in its written form. It is aimed mainly at those who will be teaching their Indigenous language.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers program if the requirements for B.Ed. are fulfilled.

Required Courses (6 credits)

EDEC 342	(3)	Intermediate Indigenous Language
EDEC 344	(3)	Advanced Indigenous Language

Complementary Courses (18 credits)

18 credits selected as described below.

Language Courses

6 credits from the following language courses (or other courses as approved by the Director of Programs in First Nations and Inuit Education) including a beginning course (3 credits) in the Indigenous language as a first language (e.g., EDEC 241 Cree Language 1) and a second-level course (3 credits) in the same language (e.g., EDEC 242 Cree Language 2).

EDEC 227	(3)	Naskapi Language 1
EDEC 228	(3)	Naskapi Language 2
EDEC 239	(3)	Mi'gmaw Language 1
EDEC 240	(3)	Mi'gmaw Language 2
EDEC 241	(3)	Cree Language 1
EDEC 242	(3)	Cree Language 2
EDEC 272	(3)	Algonquin Language 1
EDEC 273	(3)	Algonquin Language 2
EDEC 277	(3)	Mohawk Language 1
EDEC 278	(3)	Mohawk Language 2
EDEC 289	(3)	Inuktitut Orthography and Grammar

Education Courses

12 credits from the list below:

EDEA 242	(3)	Cultural Skills 1
EDEC 220	(3)	Curriculum Development
EDEC 403	(3)	The Dialects of Inuktitut

EDEE 223	(3)	Language Arts
EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 248	(3)	Reading and Writing Inuktitut/Cree
EDEE 345	(3)	Literature and Creative Writing 1
EDEE 346	(3)	Literature and Creative Writing 2
EDEE 347	(3)	Grammar and Composition 1
EDEE 348	(3)	Grammar and Composition 2
EDEE 373	(3)	Traditional Healing
EDEE 383	(3)	Oral and Family History
EDES 365	(3)	Experiences in Communications
EDPE 304	(3)	Measurement and Evaluation

Electives (6 credits)

6 credits of suitable courses approved by the Director of Programs in First Nations and Inuit Education.

5.8.3.6.1 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.

5.8.3.7 Certificate (Cert.) Inclusive Education (30 credits)

The Certificate in Inclusive Education is intended for regular class teachers, special educators, adult educators, and other educational personnel. The program provides a sequence of courses that will ensure a sound foundation for adapting curriculum and instruction for students with varying abilities, learning styles, and special needs. It strives to meet the needs of educators who must adapt to their changing roles in contemporary schools: (a) for general educators, to educate students with diverse needs in their heterogeneous classrooms, and (b) for special educators, to collaborate with other professionals working with exceptional students.

Required Courses (24 credits)

EDPI 309	(3)	Diverse Learners
EDPI 341	(3)	Instruction in Inclusive Schools
EDPI 344	(3)	Assessment for Instruction
EDPI 440	(3)	Managing the Inclusive Classroom
EDPI 441	(3)	Students with Behaviour Difficulties
EDPI 442	(3)	Students with Learning Difficulties
EDPI 526	(3)	Supporting Students' Strengths and Talents
EDPI 543	(3)	Family, School and Community

Complementary Courses (6 credits)

6 credits chosen from the following:

EDPE 496	(3)	Individual Reading Course
EDPI 527	(3)	Creativity and its Cultivation
EDPI 539	(3)	Field Work 1
EDPI 540	(3)	Field Work 2

Other courses may be approved by the Program Director. Further information may be obtained by emailing ecpundergrad.education@mcgill.ca. Courses listed above are not necessarily offered on a regular basis. Check Minerva for course availability.

5.8.4 Kinesiology and Physical Education

5.8.4.1 Location

Kinesiology and Physical Education, Faculty of Education

Currie Gym
 475 Pine Avenue West, 2nd floor
 Montreal QC H2W 1S4
 Telephone: 514-398-4184
 Fax: 514-398-4186
 Email: studentaffairs.kpe@mcgill.ca
 Website: mcgill.ca/edu-kpe

5.8.4.2 About the Department of Kinesiology and Physical Education

The Department of Kinesiology and Physical Education offers one program leading to a **B.Ed.** degree, two programs leading to a **B.Sc.** degree, a **Minor** in Kinesiology for Science students, and a **Minor** in Entrepreneurship in collaboration with the Faculty of Management. For more information, please visit the website's [Undergraduate Program Information](#) section.

The Department also offers programs at the graduate level leading to an **M.A.** and **M.Sc.**, as well as a Ph.D. in Kinesiology Sciences. For further information on these programs, please visit mcgill.ca/edu-kpe/programs section.

5.8.4.3 Kinesiology and Physical Education Faculty

Chair

Julie Côté

Undergraduate Program Director

Celena Scheede-Bergdahl

Graduate Program Director

Lindsay Duncan

Emeritus Professors

Theodore Milner; Greg Reid

Professors

Ross E. Andersen; Gordon Bloom; Julie Côté; Dilson Rassier.

Associate Professors

Lindsay Duncan; William Harvey; Dennis Jensen; Caroline Paquette; David J. Pearsall; Shane Sweet.

Assistant Professors

Tyler Churchward-Venne; Benoit Gentil; Jenna Gibbs; Jordan Koch; Charlotte Usselman.

Senior Faculty Lecturer

Celena Scheede-Bergdahl

Faculty Lecturer

Jessica Mocella

Associate Members

Susan Bartlett; José Morais; Shawn Robbins.

Adjunct Professors

Philippe Dixon; Kazi Jamil.

5.8.4.4 Bachelor of Education (B.Ed.) - Physical and Health Education (120 credits)

The Bachelor of Education (B.Ed.) - Physical and Health Education is a 120-credit program leading to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credit program) for a total of 150 credits.

The Physical and Health Education program prepares students to teach physical and health education at the elementary and secondary levels. In a unique structure interweaving academic studies, professional course work, and teaching practices over the course of study, students are rapidly given the opportunity to assume a teaching role; the extent of teaching involvement and expectations progressively building on additional academic and professional courses.

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.

EDEC 202	(3)	Effective Communication
EDEM 220	(3)	Contemporary Issues in Education
WCOM 250	(3)	Research Essay and Rhetoric

Required Courses (102 credits)

EDEC 215	(0)	English Exam for Teacher Certification
EDEC 247	(3)	Policy Issues in Quebec and Indigenous 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
EDKP 215	(0)	Standard First Aid/Cardio-Pulmonary Resuscitation Level C
EDKP 217	(3)	Track and Field
EDKP 223	(3)	Games 1: Elementary Physical Education
EDKP 225	(3)	Games 2: Secondary Physical Education
EDKP 232	(3)	Health-Related Fitness
EDKP 235	(3)	Non-Traditional Physical Activities
EDKP 237	(3)	Outdoor Education
EDKP 253	(3)	Movement Education
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness
EDKP 293	(3)	Anatomy and Physiology
EDKP 307	(3)	Evaluation in Physical Education
EDKP 330	(3)	Physical Activity and Public Health

EDKP 342	(3)	Physical Education Methods
EDKP 391	(3)	Physiology in Sport and Exercise
EDKP 394	(3)	Historical Perspectives
EDKP 396	(3)	Adapted Physical Activity
EDKP 442	(3)	Physical Education Pedagogy
EDKP 443	(3)	Research Methods
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)

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 302	(3)	Kinesiology Clinic 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-year B.Sc.(Kinesiology) program, which includes a 30-credit Freshman year for a total of 120 credits.

The focus of the Kinesiology program is a comprehensive understanding of human movement. Kinesiology is a multidisciplinary field viewing human movement from social, historical, psychological, or biological perspectives. The program provides students with a breadth of theoretical knowledge as well as an opportunity to explore related areas in greater depth, including minor programs available elsewhere within the University.

An Honours program is available for particularly strong students. To qualify for the Honours program, students must obtain a CGPA of 3.3 after two years in Kinesiology and must retain this CGPA until graduation.

Graduation Requirement:

Prior to graduation, students are required to show proof of certification in Standard Level Safety Oriented First Aid/Level C in Cardiopulmonary Resuscitation, or equivalencies.

Freshman Program

29-30 credits of basic science courses depending on the Fall term MATH course selected.

Students admitted from CEGEP or with other Advanced Standing should have equivalencies for these courses to be exempt from Freshman program requirements.

Fall term BIOL and CHEM courses:

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1

In consultation with a program adviser, one of the following Fall term MATH courses:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	Calculus A

In consultation with a program adviser, one of the following Fall term PHYS courses:

PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Waves

Winter term BIOL and CHEM courses:

BIOL 112	(3)	Cell and Molecular Biology
CHEM 120	(4)	General Chemistry 2

One of the following Winter term MATH courses:

MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B

One of the following Winter term PHYS courses:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Required Courses (51 credits)

ANAT 315	(3)	Clinical Human Musculoskeletal Anatomy
ANAT 316	(3)	Clinical Human Visceral Anatomy
EDKP 206	(3)	Biomechanics of Human Movement
EDKP 215	(0)	Standard First Aid/Cardio-Pulmonary Resuscitation Level C
EDKP 250	(3)	Introductory Principles in Applied Kinesiology
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition and Wellness
EDKP 330	(3)	Physical Activity and Public Health
EDKP 350	(3)	Physical Fitness Evaluation Methods
EDKP 395	(3)	Exercise Physiology
EDKP 396	(3)	Adapted Physical Activity
EDKP 443	(3)	Research Methods
EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 450	(3)	Advanced Principles in Applied Kinesiology
EDKP 498	(3)	Sport Psychology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (15-24 credits)

3 credits from Statistics:

BIOL 373	(3)	Biometry
EDPE 375	(3)	Introductory Statistics
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

3 credits from Psychosocial:

EDKP 394	(3)	Historical Perspectives
EDKP 405	(3)	Sport in Society
EDKP 548	(3)	Applied Exercise Psychology

0-6 credits from Internships/Practicums:

EDKP 301	(3)	Kinesiology Internship 1
EDKP 302	(3)	Kinesiology Clinic Internship 1

EDKP 401	(3)	Kinesiology Internship 2
EDKP 402	(3)	Kinesiology Clinic Internship 2
EDKP 451	(3)	Personal Trainer Practicum
EDKP 453	(3)	Research Practicum in Kinesiology

3 credits from Biomechanics/Motor Learning:

EDKP 444	(3)	Ergonomics
EDKP 446	(3)	Physical Activity and Ageing
EDKP 566	(3)	Advanced Biomechanics Theory

6 credits from Exercise Physiology:

EDKP 445	(3)	Exercise Metabolism
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology
EDKP 485	(3)	Cardiopulmonary Exercise Pathophysiology
EDKP 542	(3)	Environmental Exercise Physiology

0-3 credits from Nutrition:

NUTR 503	(3)	Nutrition and Exercise
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Elective Courses (15-24 credits)

15-24 credits of any 200-500 level courses; in consultation with the Student Adviser, a Minor in another faculty may be possible.

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:

BIOL 111	(3)	Principles: Organismal Biology
CHEM 110	(4)	General Chemistry 1

In consultation with a program adviser, one of the following Fall term MATH courses:

MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1

MATH 150 (4) Calculus A

In consultation with a program adviser, one of the following Fall term PHYS courses:

PHYS 101 (4) Introductory Physics - Mechanics

PHYS 131 (4) Mechanics and Waves

Winter term BIOL and CHEM courses:

BIOL 112 (3) Cell and Molecular Biology

CHEM 120 (4) General Chemistry 2

One of the following Winter term MATH courses:

MATH 141 (4) Calculus 2

MATH 151 (4) Calculus B

One of the following Winter term PHYS courses:

PHYS 102 (4) Introductory Physics - Electromagnetism

PHYS 142 (4) Electromagnetism and Optics

Required Courses (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 Public Health

EDKP 350 (3) Physical Fitness Evaluation Methods

EDKP 395 (3) Exercise Physiology

EDKP 396 (3) Adapted Physical Activity

EDKP 405 (3) Sport in Society

EDKP 443 (3) Research Methods

EDKP 447 (3) Motor Control

EDKP 448 (3) Exercise and Health Psychology

EDKP 450 (3) Advanced Principles in Applied Kinesiology

EDKP 454 (3) Honours Research Practicum

EDKP 485 (3) Cardiopulmonary Exercise Pathophysiology

EDKP 495 (3) Scientific Principles of Training

EDKP 498	(3)	Sport Psychology
EDKP 499	(6)	Undergraduate Honours Research Project
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (15 credits)

15 credits selected as described below.

3 credits of Statistics from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

12 credits from:

BIOC 311	(3)	Metabolic Biochemistry
EDKP 301	(3)	Kinesiology Internship 1
EDKP 394	(3)	Historical Perspectives
EDKP 401	(3)	Kinesiology Internship 2
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology
EDKP 453	(3)	Research Practicum in Kinesiology
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 548	(3)	Applied Exercise Psychology
EDKP 566	(3)	Advanced Biomechanics Theory
NUTR 344	(4)	Clinical Nutrition 1
NUTR 503	(3)	Nutrition and Exercise
PHGY 314	(3)	Integrative Neuroscience
POTH 434	(3)	Musculoskeletal Biomechanics
PSYC 471	(3)	Human Motivation

Elective Courses (2 credits)

To be chosen in consultation with the Program Director or Student Adviser.

6 Faculty of Engineering

6.1 About the Faculty of Engineering

The Faculty currently includes six engineering departments and two schools, and houses three institutes:

Departments

Bioengineering
 Chemical Engineering
 Civil Engineering
 Electrical and Computer Engineering
 Mechanical Engineering
 Mining and Materials Engineering

Schools

The Peter Guo-hua Fu School of Architecture
 Urban Planning

Institutes

Trottier Institute for Sustainability in Engineering and Design (TISED) (Website: mcgill.ca/tised)
 McGill Institute for Advanced Materials (MIAM) (Website: mcgill.ca/miam) (established by the Faculties of Engineering and Science)
 McGill Institute for Aerospace Engineering (MIAE) (Website: mcgill.ca/miae)

The Faculty serves approximately 3,300 undergraduate students and 1,300 graduate students in a wide variety of academic programs.

Undergraduate programs leading to professional bachelor's degrees are offered in all Engineering departments. These programs are designed to qualify graduates for immediate employment in a wide range of industries and for membership in the appropriate professional bodies. Additionally, a non-professional undergraduate degree is offered in the School of Architecture for those who plan to work in related fields not requiring professional qualification.

The curricula are structured to provide suitable preparation for those who plan to continue their education in postgraduate studies either at McGill or elsewhere. The professional degrees in Architecture and Urban Planning are offered at the master's level and are described at [Faculty of Engineering > Graduate](#).

The academic programs are divided into required and complementary sections. The required courses emphasize basic principles which permit graduates to keep abreast of progress in technology throughout their careers. Exposure to current technology is provided by the wide variety of complementary courses which allow students to pursue a particular interest in depth. For program details and requirements, refer to [section 6.12: Browse Academic Units & Programs](#).

The **Engineering Internship Program** provides engineering students with the opportunity to participate in four-, eight-, twelve-, or sixteen-month paid work experiences. Details can be found at mcgill.ca/careers4engineers/engineering-internship-program/students In addition, co-op programs are offered in Mining Engineering, in Materials Engineering and in Software Engineering.

Graduate and postgraduate programs leading to master's and doctoral degrees are offered in all sectors of the Faculty. Numerous areas of specialization are available in each of the departments and schools. All postgraduate programs, including the professional degree programs in Architecture and in Urban Planning, are described at [Faculty of Engineering > Graduate](#).

6.2 History of the Faculty

The Faculty of Engineering began in 1871 as the Department of Practical and Applied Science in the Faculty of Arts with degree programs in Civil Engineering and Surveying; Mining Engineering and Assaying; and Practical Chemistry. Diploma courses had been offered from 1859, and by 1871 the staff and enrolments had increased sufficiently to justify the creation of the Department. Continued growth led to the formation of the Faculty of Applied Science in 1878. By 1910 there were ten degree programs offered, including Architecture and Railroad Engineering. Subsequent changes in the overall pattern of the University led to the creation of the Faculty of Engineering in 1931 with a departmental structure very similar to that which exists at present.

For a detailed history of the Faculty from 1811 to 2003, see mcgill.ca/engineering/about-us/our-history.

6.3 Engineering Microcomputing Facility

In addition to the services provided by McGill's Information Technology Services, the Faculty maintains computing resources in support of teaching and some research activities specific to Engineering (CAD/CAM, testing and simulation, etc). This includes workstations and software for undergraduate use and support for labs, workshops and administration. The goal is to make these resources as accessible as possible and constantly evolve to meet the demands of the program.

Individual departments also offer additional services designed around specialized roles such as software engineering, control systems and process design. They also provide additional support for graduate students and research activities.

Further information is available at mcgill.ca/emf.

6.4 Schulich Library of Physical Sciences, Life Sciences, and Engineering

Schulich Library of Physical Sciences, Life Sciences, and Engineering
Macdonald-Stewart Library Building (*closed for renovations*)

Temporary Location:

McLennan-Redpath Library Complex
3459 McTavish Street
Montreal QC H3A 0C9

Contact the Library:

mcgill.ca/library/contact/askus

Website: mcgill.ca/library



Note: Please note that the Macdonald-Stewart Library Building, which normally houses the collection and services, is temporarily closed for renovations. During the renovation project, most of the collections and services are available via the [McLennan-Redpath Library Complex](#). Eleven subject-specialised liaison librarians continue to offer one-on-one research consultations, as well as a range of tours and workshops designed to help users effectively find, assess, and use information.

More information on the renovation project: mcgill.ca/library/about/renovation-schulich-library

Find your librarian: mcgill.ca/library/contact/askus/liaison

The Schulich Library of Physical Sciences, Life Sciences, and Engineering provides resources and services to support research and teaching programs in engineering, physical sciences, health sciences, medicine, and dentistry. The collection provides access to thousands of electronic resources (books, journal, and databases), accessible anytime, anywhere through EZproxy, using a McGill username and password. The library's physical collection, including course reserves, is available in the McLennan-Redpath Library Complex.

The Schulich Library is one of several McGill library branches. The following other branch libraries will also be of interest to students in the Faculty of Engineering:

- [Blackader-Lauterman Library of Architecture and Art](#)
- [Macdonald Campus Library](#)

Contact us by phone or email or visit the website to learn more about the Library's services, collections, and facilities. We look forward to seeing you in the Library.

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: mcgill.ca/engineering

The **McGill Engineering Student Centre** (Student Affairs Office, Career Centre, Peer Tutoring Services) and the **Office of the Associate Dean** (Student Affairs) are located at the following address:

3450 University Street
Montreal QC H3A 0E8
Frank Dawson Adams Building, Suite 22
Telephone: 514-398-7257
McGill Engineering Student Centre website: mcgill.ca/engineering/students/undergraduate/mesc

6.5.2 About the Faculty of Engineering

The mission of the Faculty of Engineering is to contribute to the advancement of learning and to the socio-economic development of Quebec and Canada, through teaching and research activities at the highest international standards of quality.

Goals:

- To prepare graduates for productive professional careers through the provision of accredited bachelor's programs
- To train students through focused professional programs to attain the forefront of their fields
- To perform research and other scholarly activities which achieve international recognition
- To ensure that technological innovations developed through research are transferred to industry
- To provide a stimulating environment for teaching, learning, and research

In this section, you will find up-to-date information about the Faculty and about the undergraduate programs and courses it offers. For information about graduate studies in the Faculty of Engineering, see [Faculty of Engineering > Graduate](#).

You will find information on the following topics (and others):

- [section 6.1: About the Faculty of Engineering](#)
- [section 6.2: History of the Faculty](#)
- [section 6.3: Engineering Microcomputing Facility](#)
- [section 6.4: Schulich Library of Physical Sciences, Life Sciences, and Engineering](#)
- [section 6.6: Degrees and Requirements for Professional Registration](#)
- [section 6.9: Student Activities](#)
- [section 6.11: Engineering Internship Program \(EIP\)](#)
- Undergraduate [Programs](#) and [Courses](#)
- [section 6.12.10: Minor Programs](#) for students in the Faculty of Engineering

For regulations that are specific to undergraduate studies in the Faculty of Engineering, see [University Regulations and Resources \(Undergraduate\)](#) and watch for sections and notes that are specific to the Faculty of Engineering.

6.5.3 Administrative Officers

Dean

James Nicell

Associate Deans

Frank Ferrie, *Faculty Affairs*; David L. Frost, *Student Affairs*; Roni Khazaka, *Academic Programs*; Milica Popovich, *Research and Innovation*.

Department Chairs

Richard Chromik, *Mining & Materials Engineering*; Warren Gross, *Electrical and Computer Engineering*; Mohamed Meguid, *Civil Engineering*; Rosaire Mongrain, *Mechanical Engineering*; Dan V. Nicolau, *Bioengineering*; Viviane Yargeau, *Chemical Engineering*.

Director, The Peter Guo-hua Fu School of Architecture

David Theodore

Director, School of Urban Planning

Richard Shearmur

Director of Administration

Chidinma Offoh-Robert

Associate Director, McGill Engineering Student Centre

Kaila Folinsbee

6.6 Degrees and Requirements for Professional Registration

Non-Professional

Bachelor of Science (Architecture)

The first professional degree in architecture is the Master of Architecture (Professional). Further information can be found in [Faculty of Engineering > Graduate](#).

Professional

Bachelor of Engineering

The B.Eng. programs are accredited by the Canadian Engineering Accreditation Board (CEAB) of Engineers Canada. 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.

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.

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 mcgill.ca/applying.

6.8 Student Progress

The length of the B.Eng. and B.Sc.(Arch.) programs varies depending on the program and basis of admission. You can find the curriculum for your program on the website of your department/school. See mcgill.ca/engineering/departments-schools-and-institutes for links to department/school websites.

You are expected to complete the B.Eng. or B.Sc.(Arch.) program within six years of entry. However, this may vary if students are admitted to a shortened program (e.g., on account of Advanced Standing). Extensions may be granted by the Committee on Standing in cases of serious medical problems or where other similarly uncontrollable factors have affected your progress, or your program is lengthened (e.g., participation in the Engineering Internship Program).

6.9 Student Activities

The campus offers a wide variety of extracurricular activities for students. All are encouraged to participate. Many of these are organized within the Faculty under the auspices of the Engineering Undergraduate Society (EUS). EUS publishes a handbook describing their operations and the activities of various Faculty clubs and societies; you can also find these on their website (see below). All undergraduate students automatically become members of the EUS. Each department and school also has a student association.

- For more information about **EUS and links to department/school student association websites**, visit the EUS website at mcgilleus.ca.
- For more information on **extra-curricular activities and organizations**, see mcgill.ca/engineering/students/undergraduate/student-life.
- For more information on **student design teams and projects**, see mcgill.ca/engineering/students/undergraduate/student-life/design-teams-projects.

6.10 Degrees and Programs Offered

Internship Program

Engineering Internship Program

Co-op Programs

Materials Engineering (B.Eng.)

Mining Engineering (B.Eng.)

Software Engineering (B.Eng.)

Major Programs

Architecture (B.Sc.(Arch.))
Bioengineering (B.Eng.)
Chemical Engineering (B.Eng.)
Civil Engineering (B.Eng.)
Computer Engineering (B.Eng.)
Electrical Engineering (B.Eng.)
Materials Engineering (B.Eng.)
Mechanical Engineering (B.Eng.)
Mining Engineering (B.Eng.)

Honours Programs

Electrical Engineering (B.Eng.)
Mechanical Engineering (B.Eng.)

Minors

Aerospace Engineering
Applied Artificial Intelligence
Arts
Biomedical Engineering
Biotechnology
Chemistry
Computer Science
Construction Engineering and Management
Economics
Environment
Environmental Engineering
Management Minors: Minor in Finance, Minor in Management, Minor in Marketing, Minor in Operations Management
Materials Engineering
Mathematics
Mining Engineering
Musical Science and Technology
Nanotechnology
Physics
Software Engineering
Technological Entrepreneurship

6.11 Engineering Internship Program

Employers value experience. Internships (four, eight, twelve, or sixteen months) allow you to gain professional work experience during the course of your undergraduate studies while earning a salary within the average range for entry-level professional positions. Other benefits include the following:

- Improved employment prospects upon graduation, often at a higher starting salary
- The opportunity to explore career options prior to graduation
- The opportunity to develop communication and technical skills and to acquire a business perspective that cannot be learned in school

An internship may begin in January, May, or September. Employers choose the most suitable students for their organization through an application and interview process. While employed by the participating companies, you work on assignments related to your field of study. 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.

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 mcgill.ca/careers4engineers or send an email to intern.engineering@mcgill.ca.



Important Information:

- While on internship, you are expected to complete any deferrals you may have been granted, regardless of the location of the internship. If you do not write a deferred exam as scheduled, you will receive a final grade of J. The J grade will calculate as a failure in both the TGPA and CGPA.
- International students must ensure that their health coverage remains in force during their internship.
- During your time as an intern, you are not considered to be in full-time status. Your government loans will become due and payable within the prescribed grace period (usually six months).
- If you have a scholarship, please check with the administrator of the scholarship for information on eligibility (you will not be a full-time student during the internship).

6.12 Browse Academic Units & Programs

The programs and courses in the following sections have been approved for the 2022–2023 session as listed.

6.12.1 Architecture

6.12.1.1 Location

Macdonald-Harrington Building, Room 201
 815 Sherbrooke Street West
 Montreal QC H3A 0C2
 Telephone: 514-398-6700
 Fax: 514-398-7372
 Website: mcgill.ca/architecture

6.12.1.2 About the Peter Guo-hua Fu School of Architecture

Founded in 1896, the Peter Guo-hua Fu School of Architecture at McGill University offers professional programs, including B.Sc. (Arch.) and M.Arch. (Professional), and post-professional research programs, including M.Arch. (Post-professional) and Ph.D.

Vision

To advance professional architectural education that flourishes through research, critical practice, and community engagement.

Mission

The Peter Guo-hua Fu School of Architecture educates professionals who contribute to the global community through the design, construction, and interpretation of the built environment. The School:

- encourages a diverse environment for teaching, learning, and research, supported by both traditional and state-of-the-art digital resources;
- develops professional and post-professional research-based Masters and Ph.D. programs that enable graduates to contribute responsibly to the profession, to research, and to careers in related fields;

- enriches multidisciplinary teaching and research within the University and in connection with other local and international universities;
- engages citizens' groups, local, provincial, and national governments, the private sector, and the profession toward the improvement of the built environment.

6.12.1.3 Architectural Certification in Canada

In Canada, all provincial/territorial associations/institutes/orders recommend a degree from an accredited professional degree program as a prerequisite for licensure. The Canadian Architectural Certification Board (CACB), which is the sole agency authorized to accredit Canadian professional degree programs in architecture, recognizes two types of accredited degrees: the **Master of Architecture (M.Arch.)**, and the **Bachelor of Architecture (B.Arch.)**. A program may be granted a two-year, three-year, or six-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The M.Arch. (Professional) degree is accredited by the Canadian Architectural Certification Board (CACB), and is recognized as accredited by the National Council of Architectural Registration Boards (NCARB) in the United States.

6.12.1.4 Programs of Study

Students in the B.Sc.(Arch.) program who intend to proceed to the professional degree must satisfy certain minimum requirements. Students must:

- complete the B.Sc.(Arch.) degree, including the series of required and complementary courses stipulated for professional studies, with a minimum CGPA of 3.00. Please note that the minimum CGPA requirement does not guarantee entry into M.Arch program;
- submit a portfolio of work executed in the sequence of six design studios, as well as samples of professional and personal work;
- complete the minimum period of relevant work experience according to the current Work Experience Guidelines (see <http://www.mcgill.ca/architecture/programs/professional/workexperience>).

Further information on the M.Arch. (Professional) program and application procedures is available at mcgill.ca/architecture/programs/professional/prospective-students/application-procedures.

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);
- Université Catholique de Louvain (Louvain, Brussels, and Tournai, Belgium);
- Scuola di Architettura Civile Politecnico di Milano (Leonardo) (Milan, Italy);
- College of Architecture and Urban Planning, Tongji University (Shanghai, China);
- École Nationale Supérieure d'Architecture Paris-Belleville (Paris, France).
- École Nationale Supérieure d'Architecture Grenoble (Grenoble, France).

6.12.1.5 Ancillary Academic Facilities

Laboratories and Workshops

Media Centre – Juan Osorio, Media Technician

Workshop Facilities – David Speller, Technician

Library

Blackader-Lauterman Library of Architecture and Art, located in the Redpath Library – David Greene, Liaison Librarian

Collections

The John Bland Canadian Architecture Collection – Jennifer Garland, Assistant Head Librarian, Rare Books and Special Collections

6.12.1.6 Architecture Faculty

Director

David Theodore

Undergraduate Program Director

David Covo

Graduate Program Director

Theodora Vardouli

Emeritus Professors

Bruce Anderson; Vikram Bhatt; Derek Drummond; Alberto Pérez-Gómez; Adrian Sheppard; Radoslav Zuk.

Associate Professors (Post-Retirement)

Ricardo L. Castro; Robert Mellin; Alberto Pérez-Gómez; Pieter Sijpkens.

Professors

Anmarie Adams; Martin Bressani; Avi Friedman.

Associate Professors

David Covo; Michael Jemtrud; Nik Luka; David Theodore; Ipek Türeli.

Assistant Professors

Salmaan Craig; Naomi Keena; Philip Tidwell; Theodora Vardouli.

Professors of Practice

Howard Davies; Peter Guo-hua Fu; Julia Gersovitz; Andrew King.

Adjunct Professor

Conor Sampson

Course Lecturers

Vedanta Balbahadur, Evelyne Bouchard, Morgan Carter, Nancy Dunton, Tom Egli, Aniel Guxholli, Charles Gregoire, Olga Karpova, Shane Laptiste, Daniela Leon, Julia Manacas, Sybil McKenna, Ipek Mehmeto lu, Samiha Meem, Marc-André Plourde, Cailen Pybus, Sophie Robitaille, Rebecca Taylor, Jennifer Thorogood.

6.12.1.7 Bachelor of Science (B.Sc.) (Architecture) - Architecture (126 credits)

Program credit weight: 126 credits

Program credit weight for CEGEP students: 100 credits

The B.Sc.(Arch.) program provides conceptual, technical, and procedural foundations for the professional M.Arch. program, which is accredited by the Canadian Architectural Certification Board and recognized as accredited by the National Council of Architectural Registration Boards in the US. Students entering the B.Sc.(Arch.) program complete first-year courses in general studies (including sciences, humanities, and social sciences), for which individuals entering with the Québec Diploma of Collegial Studies in Arts and Science or Pure and Applied Science (or equivalent) are generally granted transfer credits. All students then complete six terms of immersion in architecture, centered in studio courses exploring principles of design, norms of representation, cultures of construction, and the human experience of architecture. Studio-based learning is complemented by lecture courses on foundational knowledge. Complementary courses provide further opportunities to learn about how culture intersects with technology in the work of architecture, and students select electives to customize their learning experience.

Required Year 0 (Freshman) Courses

26 credits

Generally, students admitted to the Architecture program from Quebec CEGEPs are granted transfer credit for the Year 0 (Freshman) courses and enter a 100-credit (six-term) program.

Course choices must be made through consultation with the Student Adviser for the Professional Programs.

All Year 0 students must successfully complete 10 credits from the following:

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
PHYS 131	(4)	Mechanics and Waves

All Year 0 students must also successfully complete 16 credits as follows:

3 credits from among any 100- or 200-level courses with the subject codes of ATOC (Atmospheric and Oceanic Sciences), COMP (Computer Science), ENVR (Environment), and EPSC (Earth and Planetary Sciences).

13 credits from among any 100- or 200-level courses with the subject codes of AFRI (African Studies), ANTH (Anthropology), ARTH (Art History), CANS (Canadian Studies), CATH (Catholic Studies), CLAS (Classics), COMS (Communication Studies), EAST (East Asian Studies), ECON (Economics), ENGL (English), FREN (French), GEOG (Geography), GSFS (Gender, Sexuality, Feminist, and Social Justice), GERM (German), HISP (Hispanic Studies), HIST (History), INDG (Indigenous Studies), ISLA (Islamic Studies), ITAL (Italian), JWST (Jewish Studies), LING (Linguistics), LLCU (Languages, Literatures, and Cultures), MUAR (Music - Arts Faculty), PHIL (Philosophy), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), RUSS (Russian), SOCI (Sociology).

Required Courses (88 credits)

Non-Departmental

FACC 220	(3)	Law for Architects and Engineers
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Architectural Courses

Note: ARCH 250 and ARCH 378 should be taken in the first year of studies.

ARCH 201	(6)	Communication, Behaviour and Architecture
ARCH 202	(6)	Architectural Graphics and Elements of Design
ARCH 221	(2)	Architectural Drawing
ARCH 240	(3)	Organization of Materials in Buildings
ARCH 241	(3)	Architectural Structures 1
ARCH 250	(3)	Architectural History 1
ARCH 251	(3)	Architectural History 2
ARCH 303	(6)	Design and Construction 1
ARCH 304	(6)	Design and Construction 2
ARCH 325	(2)	Architectural Sketching
ARCH 342	(3)	Digital Representation
ARCH 354	(3)	Architectural History 3
ARCH 355	(3)	Architectural History 4
ARCH 375	(3)	Landscape
ARCH 377	(3)	Energy, Environment, and Buildings 1
ARCH 378	(3)	Introduction to Building Environments
ARCH 405	(6)	Design and Construction 3
ARCH 406	(6)	Design and Construction 4
ARCH 445	(3)	Architectural Structures 2
ARCH 447	(3)	Energy, Environment, and Buildings 2
ARCH 451	(3)	Building Regulations and Safety
ARCH 512	(3)	Architectural Modelling
ARCH 551	(3)	Urban Design and Planning

Complementary Courses (6 credits)

6 credits from among the following:

ARCH 217	(1)	Freehand Drawing
ARCH 379	(3)	Summer Course Abroad
ARCH 383	(3)	Geometry and Architecture
ARCH 461	(1)	Freehand Drawing and Sketching
ARCH 490	(2)	Selected Topics in Design
ARCH 514	(4)	Community Design Workshop

ARCH 515	(3)	Sustainable Design
ARCH 517	(3)	Sustainable Residential Development
ARCH 519	(3)	Field Course Abroad
ARCH 520	(3)	Montreal: Urban Morphology
ARCH 523	(3)	Significant Texts and Buildings
ARCH 525	(3)	Seminar on Analysis and Theory
ARCH 526	(3)	Philosophy of Structure
ARCH 528	(3)	History of Housing
ARCH 531	(3)	Architectural Intentions Vitruvius - Renaissance
ARCH 532	(3)	Origins of Modern Architecture
ARCH 535	(3)	History of Architecture in Canada
ARCH 536	(3)	Heritage Conservation
ARCH 540	(3)	Selected Topics in Architecture 1
ARCH 541	(3)	Selected Topics in Architecture 2
ARCH 542	(3)	Selected Topics in Architecture 3
ARCH 543	(3)	Selected Topics in Architecture 4
ARCH 564	(3)	Design for Development
ARCH 566	(3)	Cultural Landscapes Seminar

Elective Courses (6 credits)

6 credits of elective courses outside the School of Architecture must be completed, subject to approval by the Student Adviser.

6.12.2 Bioengineering

6.12.2.1 Location

McConnell Engineering Building
 Room 350
 3480 University Street
 Montreal QC H3A 0E9
 Telephone: 514-398-3647
 Fax: 514-398-7379
 Email: studentaffairs.bioeng@mcgill.ca
 Website: mcgill.ca/bioengineering

6.12.2.2 About the Department of Bioengineering

The Department of Bioengineering, established in 2012, is the newest academic unit in McGill University's renowned Faculty of Engineering. In Fall 2016, the Department launched a full-time 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, Mechanics, and Sensing
- Biomolecular, Cellular, and Tissue Engineering
- Biological Information and Computational Bioengineering

6.12.2.3 Bioengineering Faculty

Chair

Dan V. Nicolau

Professors

Dan V. Nicolau; Amine Kamen; Sebastian Wachsmann-Hogiu; Yu (Brandon) Xia.

Associate Professors

Allen Ehrlicher; Adam Hendricks; J. Matt Kinsella; Georgios Mitsis.

Assistant Professors

Codruta Ignea; Sara Mahshid; Natalie Reznikov; Caroline Wagner.

6.12.2.4 Bachelor of Engineering (B.Eng.) - Bioengineering (142 credits)

Program credit weight: 142-152 credits

Program credit weight for Quebec CEGEP students: 122-123 credits

Program credit weight for out-of-province students: 142-143 credits

The B.Eng.; Major in Bioengineering will 1) provide students with the ability to apply systematic knowledge of biology, physical sciences and mathematics; and sound engineering foundations in order to solve problems of a biological nature; and 2) prepare students for the broad area of bioengineering, incorporating both biology-focused biological engineering and medicine-focused biomedical engineering.

Students will acquire fundamental knowledge in bioengineering-related natural sciences and mathematics, as well as in the foundations of general engineering and bioengineering. Students will also acquire knowledge in one area of specialization of bioengineering: 1) biological materials and biomechanics; 2) biomolecular and cellular engineering; or 3) biological information and computation

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credits for Year 0 (Freshman) courses, except BIOL 112, and enter a 122-123-credit program. Students from Quebec CEGEPs who have successfully completed a course at CEGEP that is equivalent to BIOL 112 may obtain transfer credits for this course by passing the McGill Science Placement Exam for BIOL 112. For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels and Science Placement Exams, see www.mcgill.ca/engineering/student/sao/newstudents and select your term of admission.

BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

32 credits

CHEM 212**	(4)	Introductory Organic Chemistry 1
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 203	(3)	Principles of Statistics 1
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers

MATH 264	(3)	Advanced Calculus for Engineers
MECH 210	(2)	Mechanics 1
PHYS 319	(3)	Introduction to Biophysics
WCOM 206	(3)	Communication in Engineering

* Note FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

** Students from a CEGEP background who have completed a CEGEP course equivalent to CHEM 212 may obtain transfer credits for this course by passing the McGill Placement Exam before the start of their first term. For information on Science Placement Exams, see www.mcgill.ca/exams/dates/science. CEGEP students who do not successfully complete the CHEM 212 Placement Exam must take CHEM 212 at McGill, as outlined in the program requirements.

Required Bioengineering Courses

48 credits

BIEN 200	(2)	Introduction to Bioengineering
BIEN 210	(3)	Electrical and Optical Properties of Biological Systems
BIEN 219	(4)	Introduction to Physical Molecular and Cell Biology
BIEN 267	(3)	Bioanalytical Methods in Bioengineering.
BIEN 290	(3)	Bioengineering Measurement Laboratory
BIEN 300	(3)	Thermodynamics in Bioengineering
BIEN 314	(3)	Transport Phenomena in Biological Systems 1
BIEN 340	(3)	Transport Phenomena in Biological Systems 2
BIEN 350	(4)	Biosignals, Systems and Control
BIEN 360	(3)	Physical Chemistry in Bioengineering
BIEN 390	(3)	Bioengineering Laboratory
BIEN 420	(3)	Biodevices Design for Diagnostics and Screening
BIEN 470D1	(3)	Bioengineering Design Project
BIEN 470D2	(3)	Bioengineering Design Project
BIEN 471	(2)	Bioengineering Research Project
BIEN 560	(3)	Design of Biosensors

Complementary Courses

33-34 credits

Bioengineering Complementary Courses

24-25 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 must register for the required Technical Complementary courses in one of the three streams of bioengineering knowledge and practice: 1) Biological Materials and Mechanics (25 credits); 2) Biomolecular and Cellular Engineering (24 credits); or 3) Biological Information and Computation (24 credits).

Stream 1: Biological Materials and Mechanics (25 credits)

13 credits from List A

12 credits from List B

List A:

BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 570	(3)	Active Mechanics in Biology
CIVE 207	(4)	Solid Mechanics

MIME 261 (3) Structure of Materials

List B:

BIEN 330 (3) Tissue Engineering and Regenerative Medicine
 BIEN 414 (3) Fundamentals and Rheology of Biological Fluids
 BIEN 462 (3) Engineering Principles in Physiological Systems
 BIEN 500 (3) Special Topics in Bioengineering 1
 BIEN 510 (3) Engineered Nanomaterials for Biomedical Applications
 BIEN 515 (3) Special Topics in Bioengineering 2
 BIEN 525 (3) Special Topics in Bioengineering 3
 BIEN 530 (3) Imaging and Bioanalytical Instrumentation
 BIEN 535 (3) Electron Microscopy and 3D Imaging for Biological Materials
 BIEN 545 (3) Diagnostic Devices at the Point-of-Care
 BIEN 550 (3) Biomolecular Devices
 BIEN 580 (3) Synthetic Biology
 BIEN 585 (3) Metabolic Engineering
 BMDE 503 (3) Biomedical Instrumentation
 BMDE 504 (3) Biomaterials and Bioperformance
 BMDE 505 (3) Cell and Tissue Engineering
 BMDE 512 (3) Finite-Element Modelling in Biomedical Engineering
 CHEE 563* (3) Biofluids and Cardiovascular Mechanics
 CIVE 281 (3) Analytical Mechanics
 MECH 321 (3) Mechanics of Deformable Solids
 MECH 547 (3) Mechanics of Biological Materials
 MECH 561 (3) Biomechanics of Musculoskeletal Systems
 MECH 563* (3) Biofluids and Cardiovascular Mechanics
 MECH 572 (3) Mechanics and Control of Robotic Manipulators
 MIME 470 (3) Engineering Biomaterials
 MIME 473 (3) Introduction to Computational Materials Design
 SEAD 515 (3) Climate Change Adaptation and Engineering Infrastructure
 SEAD 520 (3) Life Cycle-Based Environmental Footprinting
 SEAD 530 (3) Economics for Sustainability in Engineering and Design
 SEAD 540 (3) Industrial Ecology and Systems
 SEAD 550 (3) Decision-Making for Sustainability in Engineering and Design

*Note: Students may choose only one of CHEE 563 and MECH 563 Biofluids and Cardiovascular Mechanics

NOTE: Maximum 6 credits of SEAD courses are allowed.

Stream 2: Biomolecular and Cellular Engineering (24-25 credits)

12 credits from List A

12-13 credits from List B

List A

BIEN 310 (3) Introduction to Biomolecular Engineering

BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 550	(3)	Biomolecular Devices
BIEN 590	(3)	Cell Culture Engineering

List B

BIEN 330	(3)	Tissue Engineering and Regenerative Medicine
BIEN 410	(3)	Computational Methods in Biomolecular Engineering
BIEN 414	(3)	Fundamentals and Rheology of Biological Fluids
BIEN 462	(3)	Engineering Principles in Physiological Systems
BIEN 500	(3)	Special Topics in Bioengineering 1
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 515	(3)	Special Topics in Bioengineering 2
BIEN 525	(3)	Special Topics in Bioengineering 3
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 535	(3)	Electron Microscopy and 3D Imaging for Biological Materials
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BIEN 545	(3)	Diagnostic Devices at the Point-of-Care
BIEN 570	(3)	Active Mechanics in Biology
BIEN 580	(3)	Synthetic Biology
BIEN 585	(3)	Metabolic Engineering
BMDE 503	(3)	Biomedical Instrumentation
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering
CIVE 281	(3)	Analytical Mechanics
CIVE 557	(3)	Microbiology for Environmental Engineering
PHYS 534	(3)	Nanoscience and Nanotechnology
SEAD 510	(4)	Energy Analysis
SEAD 515	(3)	Climate Change Adaptation and Engineering Infrastructure
SEAD 520	(3)	Life Cycle-Based Environmental Footprinting
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SEAD 540	(3)	Industrial Ecology and Systems
SEAD 550	(3)	Decision-Making for Sustainability in Engineering and Design

NOTE: Maximum 6 credits of SEAD courses are allowed.

Stream 3: Biological Information and Computation (24-25 credits)

12 credits from List A

12-13 credits from List B

List A

BIEN 310	(3)	Introduction to Biomolecular Engineering
BIEN 410	(3)	Computational Methods in Biomolecular Engineering
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BIEN 540	(3)	Information Storage and Processing in Biological Systems

List B

BIEN 414	(3)	Fundamentals and Rheology of Biological Fluids
BIEN 462	(3)	Engineering Principles in Physiological Systems
BIEN 515	(3)	Special Topics in Bioengineering 2
BIEN 525	(3)	Special Topics in Bioengineering 3
BIEN 535	(3)	Electron Microscopy and 3D Imaging for Biological Materials
BIEN 545	(3)	Diagnostic Devices at the Point-of-Care
BIEN 580	(3)	Synthetic Biology
BIEN 585	(3)	Metabolic Engineering
BMDE 502	(3)	BME Modelling and Identification
BMDE 503	(3)	Biomedical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
CIVE 281	(3)	Analytical Mechanics
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 462	(3)	Computational Biology Methods
COMP 551	(4)	Applied Machine Learning
ECSE 415	(3)	Introduction to Computer Vision
MATH 240	(3)	Discrete Structures
MECH 513	(3)	Control Systems
MECH 572	(3)	Mechanics and Control of Robotic Manipulators
SEAD 510	(4)	Energy Analysis
SEAD 515	(3)	Climate Change Adaptation and Engineering Infrastructure
SEAD 520	(3)	Life Cycle-Based Environmental Footprinting
SEAD 530	(3)	Economics for Sustainability in Engineering and Design
SEAD 540	(3)	Industrial Ecology and Systems
SEAD 550	(3)	Decision-Making for Sustainability in Engineering and Design

NOTE: Students in Stream 3 may only take one of the two 4 credit list B TCs (either COMP 551 or SEAD 510 or another 3 credit list B TC)

NOTE: Maximum 6 credits of SEAD courses are allowed.

Complementary Studies

9 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future

GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at www.mcgill.ca/importantdates.

Group B - Humanities and Social Science, Management Studies and Law

Generally, students admitted to Engineering from Quebec CEGEP's are granted transfer credits for 3 credits (one course) from the Complementary Studies Group B list.

6 credits of courses at the 200-level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (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 from the following courses:

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: 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 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

0-9 credits

Students from Quebec CEGEPs must take 9 credits of elective courses. These can be chosen from any course at the 200-level or higher offered by the University, subject to permission of the offering department.

6.12.3 Chemical Engineering

6.12.3.1 Location

M.H. Wong Building, Room 3060
3610 University Street
Montreal QC H3A 0C5
Telephone: 514-398-4494
Fax: 514-398-6678
Email: ugrad.chemeng@mcgill.ca
Website: mcgill.ca/chemeng

6.12.3.2 About the Department of Chemical Engineering

The central purpose of engineering is to pursue solutions to technological problems in order to satisfy the needs and desires of society. Chemical engineers are trained to solve the kinds of problems that are typically found in the “**chemical process industries**”, which include:

- chemical manufacturing;
- plastics;
- water treatment;
- pulp and paper;
- petroleum refining;
- ceramics; and
- paint industries;

as well as substantial portions of the:

- food processing;
- textile;
- nuclear energy;
- alternative energy;
- biochemical;
- biomedical; and
- pharmaceutical industries.

The technological problems and opportunities in these industries are often closely linked to social, economic, and environmental concerns. For this reason, chemical engineers often deal with these questions while working in management, pollution abatement, product development, marketing, and equipment design.

By means of complementary courses, students can also obtain further depth in technical areas and breadth in non-technical subjects. Some students elect to complete a minor in biotechnology, nanotechnology, management, materials engineering, computer science, environmental engineering, chemistry, or another minor (see [section 6.12.10: Minor Programs](#) for minors available to engineering students).

The solution to many environmental problems requires an understanding of technological principles; a Chemical Engineering degree provides an ideal background. In addition to relevant material learned in the core program, a selection of environmental complementary courses and minor programs is available. The involvement of many Chemical Engineering faculty members in environmental research provides the opportunity for undergraduate students to carry out research projects in this area.

The **B.Eng.** curriculum also provides the preparation necessary to undertake postgraduate studies leading to **M.Eng.**, **M.Sc.**, or **Ph.D.** degrees in Chemical Engineering. Students completing this curriculum acquire a broad, balanced education in the natural sciences with the accent on application. Thus, for those

who do not continue in Chemical Engineering, it provides an exceptionally balanced education in applied science. For others, it will form the basis of an educational program that may continue with a variety of studies such as business administration, medicine, or law. Versatility is, therefore, one of the most valuable characteristics of Chemical Engineering program graduates.

6.12.3.3 Academic Programs

The Chemical Engineering program comprises 143 credits (114 credits for those who completed the Quebec CEGEP program in Pure and Applied Sciences). Students must obtain a grade of C or better in all core courses. For the Department of Chemical Engineering, core courses include all required courses (departmental and non-departmental) as well as technical complementary courses.

6.12.3.4 Canadian Society for Chemical Engineering

The *Chemical Engineering Student Society* has for many years been affiliated with both the *CSChE* (Canadian Society for Chemical Engineering) which is one of the member societies of the Chemical Institute of Canada (CIC) and with the *AIChE* (American Institute of Chemical Engineers). CSChE membership is free for all full-time undergraduate students at McGill. (<https://www.chemist.ca/membership/fees>) CSChE and AIChE members gain access to a range of benefits, including registration rates at the Canadian Chemical Engineering Conference, as well as member rates in the American Chemical Society (ACS) and affiliated events. The student chapter also organizes a series of local social, educational, and sporting events. Recent events have included student-professor banquets, parties, speakers, broomball games, and joint events with the Montreal Section of the CIC (<https://www.cicmontrealsection.ca>), which gives students a chance to network with practicing chemical engineers in the Montreal region.

6.12.3.5 Chemical Engineering Faculty

Chair

Viviane Yargeau

Emeritus Professors

David G. Cooper; John M. Dealy; Richard J. Munz; W.J. Murray Douglas; Juan H. Vera.

Professor (Post-Retirement)

Jean-Luc Meunier

Associate Professor (Post-Retirement)

Dimitrios Berk

Professors

Sylvain Coulombe; Richard L. Leask; Milan Maric; Sasha Omanovic; Alejandro D. Rey; Phillip Servio; Nathalie Tufenkji; Viviane Yargeau.

Associate Professors

Corinne Hoesli; Jan Kopyscinski; P.-Luc Girard-Lauriault; Reghan James Hill; Anne-Marie Kietzig; Christopher Moraes.

Assistant Professors

Noémie Dorval Courchesne; Samuel Huberman; Ali Seifitokaldani.

6.12.3.6 Bachelor of Engineering (B.Eng.) - Chemical Engineering (143 credits)

Program credit weight: 143 credits

Program credit weight for Quebec CEGEP students: 114 credits

Program credit weight for out-of-province students: 143 credits

The discipline of chemical engineering is distinctive in being based equally on physics, mathematics, and chemistry. Application of these three fundamental sciences is basic to a quantitative understanding of the process industries. Those with an interest in the fourth fundamental science, biology, will find several courses in the chemical engineering curriculum that integrate aspects of the biological sciences relevant to process industries such as food processing, fermentation, biomedical, and water pollution control. Courses on the technical operations and economics of the process industries are added to this foundation. The core curriculum concludes with process design courses taught by practising design engineers. Problem-solving, experimenting, planning, and communication skills are emphasized in courses throughout the core curriculum.

Certain students who take advantage of Summer session courses can complete the departmental program in three calendar years.

In some cases, students from university science disciplines have sufficient credits to complete the requirements for the B.Eng. (Chemical) program in two and a half years. Those concerned should discuss this with their adviser.

Students must obtain a grade of C or better in all core courses. For the Department of Chemical Engineering, core courses include all required courses (departmental and non-departmental) as well as technical complementary courses.

Note to CEGEP students

If you have successfully completed a course at CEGEP that is equivalent to CHEM 212 or CHEM 234, you may obtain transfer credits for either or both courses by passing the McGill Science Placement Exam for the course(s). You must complete an application form available on the Science Placement Exam website and an application fee will be charged to your student account. Science placement exams take place in August and September before classes begin. If you pass the exam(s), transfer credits for the course(s) will be reflected on your transcript and your program credit requirements will be decreased to reflect these transfer credits. For information on Science Placement Exams, including application deadlines, the application form, application fee, dates, times, and location of the exams, see www.mcgill.ca/exams/dates/science. If you do not pass the placement exams, you must register for CHEM 212 and CHEM 234 during your studies at McGill as outlined in your program requirements.

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 114-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

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 231	(3)	Data Analysis and Design of Experiments
CHEE 291	(4)	Instrumentation and Measurement 1

CHEE 310	(3)	Physical Chemistry for Engineers
CHEE 314	(3)	Fluid Mechanics
CHEE 315	(3)	Heat and Mass Transfer
CHEE 351	(3)	Separation Processes
CHEE 370	(3)	Elements of Biotechnology
CHEE 380	(3)	Materials Science
CHEE 390	(3)	Computational Methods in Chemical Engineering
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 456D1	(4.5)	Design Project
CHEE 456D2	(4.5)	Design Project
CHEE 474	(3)	Biochemical Engineering
CHEE 484	(3)	Materials Engineering
CHEE 491	(4)	Instrumentation and Measurement 2

Technical Complementaries

9 credits

The purpose of this requirement is to provide students with an area of specialization within the broad field of chemical engineering. Alternatively, students use the technical complementaries to increase the breadth of their chemical engineering training.

List A

3-9 credits from the following:

CHEE 301	(3)	Resource Recovery and Circular Use
CHEE 511	(3)	Catalysis for Sustainable Fuels and Chemicals
CHEE 512	(3)	Stem Cell Bioprocess Engineering
CHEE 515	(3)	Interface Design: Biomimetic Approach
CHEE 521+	(3)	Nanomaterials and the Aquatic Environment
CHEE 541	(3)	Electrochemical Engineering
CHEE 543	(3)	Plasma Engineering
CHEE 563+	(3)	Biofluids and Cardiovascular Mechanics
CHEE 582	(3)	Polymer Science and Engineering
CHEE 584	(3)	Polymer Processing
CHEE 585	(3)	Foundations of Soft Matter
CHEE 587	(3)	Chemical Processing: Electronics Industry
CHEE 591	(3)	Environmental Bioremediation
CHEE 593+	(3)	Industrial Water Pollution Control
CIVE 430+	(3)	Water Treatment and Pollution Control
CIVE 521+	(3)	Nanomaterials and the Aquatic Environment
MECH 534+	(3)	Air Pollution Engineering
MECH 563+	(3)	Biofluids and Cardiovascular Mechanics

+ Students may choose only one course in each of the following sets:

- CHEE 521 or CIVE 521
- CHEE 563 or MECH 563
- CHEE 593 or CIVE 430

List B

0-6 credits from the following:

BIEN 550	(3)	Biomolecular Devices
BIOT 505*	(3)	Selected Topics in Biotechnology
BREE 325	(3)	Food Process Engineering
BREE 522	(3)	Bio-Based Polymers
CHEE 363**	(2)	Projects Chemical Engineering 1
CHEE 494**	(3)	Research Project and Seminar 1
CHEE 495**	(4)	Research Project and Seminar 2
CHEE 496**	(3)	Environmental Research Project
CIVE 557	(3)	Microbiology for Environmental Engineering
MIME 470	(3)	Engineering Biomaterials
MIME 515	(3)	(Bio)material Surface Analysis and Modification
MIME 558	(3)	Engineering Nanomaterials

* BIOT 505 can only be chosen by students taking the Minor in Biotechnology.

** Students may choose only one project course: CHEE 363, CHEE 494, CHEE 495, or CHEE 496.

List C

0-3 credits

The remaining credits, up to a maximum of 3 credits, may be taken from other suitable undergraduate courses in the Faculty of Engineering, with departmental permission.

Complementary Studies

6 credits

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
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society

SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson 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 6.12.10.11: 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 6.12.10.5: 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

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
Website: mcgill.ca/civil

6.12.4.2 About the Department of Civil Engineering

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. A variety of advanced **complementary courses** is offered in five main groupings:

- Environmental Engineering;
- Geotechnical and Geoenvironmental Engineering;
- Water Resources and Hydraulic Engineering;
- Structural Engineering;

- Transportation Engineering.

Guidance on the sequence in which required core courses should be taken is provided for students in the form of a sample program which covers the entire period of study. The technical complementary courses selected, usually in the last two terms of the program, will depend upon the student's interests. All students must *meet with their adviser* each term to confirm the courses for which they are registered.

Courses taken in Term 3 or later will depend on a student's interests and ability. Information and advice concerning different possibilities are made available in the Department prior to registration. All programs require the approval of a staff adviser. Programs for students transferring into the Department with Advanced Standing will be dependent upon the academic credit previously achieved, and such a program will be established only after consultation with a staff adviser.

6.12.4.4 Civil Engineering Faculty

Chair

Colin Rogers, *Acting Chair* (Mohamed A. Meguid, *on sabbatical*)

Associate Chair

Student Affairs: Jinxia Liu

Emeritus Professors

M. Saeed Mirza; Ghyslaine McClure; Denis Mitchell, Yixin Shao, Suresh C Shrivastava.

Professors

Vincent H. Chu; Luc E. Chouinard; Susan J. Gaskin; Subhasis Ghoshal; Mohamed A. Meguid (*on sabbatical*); Van-Thanh-Van Nguyen; James Nicell; Colin Rogers; A. Patrick S. Selvadurai; Laxmi Sushama.

Associate Professors

Andrew J. Boyd; Dominic Frigon; Sarah Jordaan; Jinxia Liu; Luis Miranda-Moreno.

Assistant Professor

Matiyas Bezabeh; Mary Kang; Stephanie Loeb; Daniele Malomo; Yi Shao; Lijun Sun; Yazhou (Tim) Xie.

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

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
WCOM 206	(3)	Communication in Engineering

* 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 or 500-level courses:

CHEE 521*	(3)	Nanomaterials and the Aquatic Environment
CIVE 446	(3)	Construction Engineering
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 460	(3)	Matrix Structural Analysis
CIVE 470	(3)	Undergraduate Research Project
CIVE 512	(3)	Advanced Civil Engineering Materials
CIVE 514	(3)	Structural Mechanics
CIVE 520	(3)	Groundwater Hydrology
CIVE 521*	(3)	Nanomaterials and the Aquatic Environment
CIVE 527	(3)	Renovation and Preservation: Infrastructure
CIVE 540	(3)	Urban Transportation Planning
CIVE 542	(3)	Transportation Network Analysis
CIVE 546	(3)	Selected Topics in Civil Engineering 1
CIVE 550	(3)	Water Resources Management
CIVE 551	(3)	Environmental Transport Processes
CIVE 555	(3)	Environmental Data Analysis
CIVE 557	(3)	Microbiology for Environmental Engineering
CIVE 558	(3)	Biomolecular Techniques for Environmental Engineering
CIVE 560	(3)	Transportation Safety and Design
CIVE 561	(3)	Greenhouse Gas Emissions
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
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
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 one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project

HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

6.12.5 Electrical and Computer Engineering

6.12.5.1 Location

Department of Electrical and Computer Engineering
 Undergraduate Programs Office
 Lorne Trotter Building, Room 2060
 3630 University Street
 Montreal QC H3A 0C6
 Telephone: 514-398-3943
 Email: undergrad.ece@mcgill.ca
 Website: mcgill.ca/ece

6.12.5.2 About the Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers undergraduate degree programs in:

- Electrical Engineering
- Electrical Engineering (Honours)
- Computer Engineering
- Software Engineering Co-op

All programs provide students with a strong background in mathematics, natural sciences, engineering science, engineering design, and complementary studies, in conformity with the requirements of the *Canadian Engineering Accreditation Board* (CEAB).

In addition to technical complementary courses, students in all three programs take general complementary courses in humanities and social sciences and/or management studies and law. These courses allow students to develop specific interests in areas such as psychology, economics, management, or political science.

6.12.5.3 Electrical and Computer Engineering Faculty

Chair

Warren Gross

Associate Chair, Academic

Ioannis Psaromiligkos

Associate Chair, Undergraduate Programs

François Bouffard

Associate Chair, Graduate Programs

Odile Liboiron-Ladouceur

Associate Chair, Operations

Dennis Giannacopoulos

Emeritus Professors

Pierre R. Bélanger; Maier L. Blostein; Peter Kabal; Martin D. Levine; Boon-Teck Ooi; Tomas J.F. Pavlasek; Nicholas C. Rumin; Jonathan P. Webb.

Professors

Tal Arbel; Benoit Boulet; Peter E. Caines; Benoit Champagne; Lawrence Chen; James Clark; Mark Coates; Jeremy R. Cooperstock; Frank Ferrie; Warren Gross; Geza Joos; Andrew G. Kirk; Fabrice Labeau; Harry Leib; Tho Le-Ngoc; David A. Lowther; David V. Plant; Gordon Roberts; Martin Rochette; Thomas Szkopek; Dániel Varró; Zeljko Zilic.

Associate Professors

François Bouffard; Christophe Dubach; Mourad El-Gamal; Dennis Giannacopoulos; Roni Khazaka; Odile Liboiron-Ladouceur; Aditya Mahajan; Muthucumaru Maheswaran; Brett Meyer; Hannah Michalska; Gunter Mussbacher; Derek Nowrouzehzairi; Milica Popovich; Ioannis Psaromiligkos.

Assistant Professors

Narges Armanfard; Sharmistha Bhadra; Amin Emad; Hsiu-Chin Lin; AJung Moon; Boris Vaisband; Xiaozhe Wang; Songrui Zhao; Wei Lili.

Faculty Lecturer

Marwan Kanaan

Associate Members

Maxime Cohen; Matthew Adam Dobbs; Gregory L. Dudek; Alan C. Evans; William R. Funnell; David Juncker; Paul Kry; Samira A. Rahimi.

Adjunct Professors

Rhys Allan Adams; Donald Davis; Tiago H. Falk; Innocent Kamwa; Marthe Kassouf; Shane McIntosh; Zetian Mi; Frédéric Nabki; Douglas O'Shaughnessy; Michael Rabbat; Joseph J. Schlesinger; Di Wu; Qunbi Zhuge.

6.12.5.4 Bachelor of Engineering (B.Eng.) - Electrical Engineering (134 credits)

Program credit weight: 134-137 credits

Program credit weight for Quebec CEGEP students: 109-112 credits

This program gives students a broad understanding of the key principles that are responsible for the extraordinary advances in the technology of computers, micro-electronics, automation and robotics, telecommunications, and power systems. These areas are critical to the development of our industries and, more generally, to our economy. A graduate of this program is exposed to all basic elements of electrical engineering and can function in any of our client industries. This breadth is what distinguishes an engineer from, for example, a computer scientist or physicist.

In addition to technical complementary courses, students in the Electrical Engineering program take general complementary courses in social sciences, administrative 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, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 109- to 112 credit program.

For information on transfer credit for French Baccalaureate, International Baccalaureate exams, Advanced Placement exams, Advanced Levels, and Science Placement Exams, see www.mcgill.ca/engineering/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

26 credits

CIVE 281	(3)	Analytical Mechanics
COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
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
WCOM 206	(3)	Communication in 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 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 250	(3)	Fundamentals of Software Development
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 343	(3)	Numerical Methods in Engineering
ECSE 354	(4)	Electromagnetic Wave Propagation
ECSE 362	(4)	Fundamentals of Power Engineering
ECSE 458D1	(3)	Capstone Design Project
ECSE 458D2	(3)	Capstone Design Project

Note: ECSE 458N1 and ECSE 458N2 can be taken instead of ECSE 458D1 and ECSE 458D2.

Complementary Courses (23-26 credits)**Technical Complementaries**

17-20 credits (5 courses) must be taken, chosen as follows:

8 credits (2 courses) from List A

9-12 credits (3 courses) from List A or List B

List A: Technical Complementaries with Laboratory Experience

8-20 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

COMP 551^	(4)	Applied Machine Learning
COMP 559	(4)	Fundamentals of Computer Animation
ECSE 310	(3)	Thermodynamics of Computing
ECSE 325	(3)	Digital Systems
ECSE 405	(3)	Antennas
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 415	(3)	Introduction 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 435	(3)	Mixed-Signal Test Techniques
ECSE 446	(3)	Realistic Image Synthesis
ECSE 451	(3)	EM Transmission and Radiation
ECSE 460*	(3)	Appareillage électrique (Electrical Power Equipment)
ECSE 463**	(3)	Electric Power Generation
ECSE 464	(3)	Power Systems Analysis
ECSE 465***	(3)	Power Electronic Systems
ECSE 466*	(3)	Réseaux de distribution
ECSE 467*	(3)	Comportement des réseaux électriques

ECSE 468*	(3)	Electricité industrielle (Industrial Power Systems)
ECSE 469*	(3)	Protection des réseaux électriques
ECSE 472	(3)	Fundamentals of Circuit Simulation and Modelling
ECSE 500	(3)	Mathematical Foundations of Systems
ECSE 501	(3)	Linear Systems
ECSE 507	(3)	Optimization and Optimal Control
ECSE 508	(3)	Multi-Agent Systems
ECSE 509	(3)	Probability and Random Signals 2
ECSE 510	(3)	Filtering and Prediction for Stochastic Systems
ECSE 516	(3)	Nonlinear and Hybrid Control Systems
ECSE 519	(3)	Semiconductor Nanostructures and Nanophotonic Devices
ECSE 521	(3)	Digital Communications 1
ECSE 526	(3)	Artificial Intelligence
ECSE 532	(4)	Computer Graphics
ECSE 543	(3)	Numerical Methods in Electrical Engineering
ECSE 544	(4)	Computational Photography
ECSE 551^	(4)	Machine Learning for Engineers
ECSE 552	(4)	Deep Learning
ECSE 554	(4)	Applied Robotics
ECSE 557	(3)	Introduction to Ethics of Intelligent Systems
ECSE 562**	(4)	Low-Carbon Power Generation Engineering
ECSE 563	(3)	Power Systems Operation and Planning
ECSE 565***	(3)	Introduction to Power Electronics
ECSE 575	(3)	Heterogeneous Integration Systems
PHYS 434	(3)	Optics

* Courses taught in French.

** ECSE 463 and ECSE 562 cannot both be taken.

*** ECSE 465 and ECSE 565 cannot both be taken.

^ ECSE 551 and COMP 551 cannot both be taken.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1

MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

*Note: Management courses have limited enrolment and registration dates. See Important Dates at www.mcgill.ca/importantdates.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Elective Course

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

Enhanced Power Concentration

Students following this program must complete 16-17 credits of technical complementary courses.

The Institute for Electrical Power Engineering was recently established as a province-wide centre for electrical power engineering education. It is funded by industry, mostly Hydro-Québec, and provides a comprehensive program, state-of-the-art laboratory facilities, and a point of contact between industry and universities involved in power engineering.

Note: This program is open to students in the regular Electrical Engineering program only.

Here are some benefits of the concentration:

A complete and up-to-date final-year program in electrical power engineering, with industry-sponsored and supported courses
 Access to industry-sponsored projects, internships, and new employment opportunities

ELIGIBILITY CRITERIA

Admission to the program is granted only in the Fall semester of every academic year. To be considered, the applicant must:

- be registered in the B.Eng. program (regular Electrical Engineering);
- have a cumulative GPA of at least 2.5;
- have completed or be registered in ECSE 362 (Fundamentals of Power Engineering);
- be able to complete the degree requirements within three semesters after initial registration in the concentration (excluding summer semesters);
- agree to follow the curriculum requirements set out below.

SELECTION CRITERIA

The number of students selected, expected 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:

Technical Complementaries and Laboratories (16 credits)

All students must take (or have taken) five courses from the following:

Required Courses

10 credits

ECSE 464	(3)	Power Systems Analysis
ECSE 465***	(3)	Power Electronic Systems
ECSE 470	(4)	Electromechanical Systems

Students must also complete ECSE 458 (Capstone Design Project) on a practical project in power engineering, preferably at the Institute or with a company sponsoring the Institute.

Complementary Courses

6-7 credits from the following:

ECSE 403	(4)	Control
ECSE 460*	(3)	Appareillage électrique (Electrical Power Equipment)
ECSE 463**	(3)	Electric Power Generation
ECSE 466*	(3)	Réseaux de distribution
ECSE 467*	(3)	Comportement des réseaux électriques

ECSE 468*	(3)	Electricité industrielle (Industrial Power Systems)
ECSE 469*	(3)	Protection des réseaux électriques

* Courses taught in French.

Note: ECSE 460, ECSE 463, ECSE 464, ECSE 465, ECSE 467, ECSE 468, and ECSE 469 are courses sponsored by the Institute and taught at Polytechnique Montréal.

6.12.5.5 Bachelor of Engineering (B.Eng.) - Honours Electrical Engineering (138 credits)

Program credit weight: 138-141 credits

Program credit weight for Quebec CEGEP students: 113-116 credits

Entry into the Electrical Engineering Honours Program

The Honours program is a limited enrolment program and entry is highly competitive. There is no direct entry to the Honours program in the first year. Students may enter the Honours program in the following ways:

- Students from CEGEP will be admitted, on the basis of their grades, at the start of the third term.
- Students from outside Quebec will be admitted, on the basis of their grades, at the start of the fifth term.

To remain in the Honours program and to be awarded the Honours degree, a student must have completed at least 14 credits in each term since entering Electrical and Computer Engineering, except for the final two terms of their degree, and maintained a CGPA of at least 3.30 since entering Electrical and Computer Engineering. In either of their final two full terms (i.e., Fall and Winter, or Winter and Fall) students may drop below 14 credits, provided the combined load for the two terms is at least 16 credits. For more information, please contact the Departmental office at 514-398-3943.

Required Year 0 (Freshman) Courses (25 credits)

Note: Students in the Honours Electrical Engineering program complete the Year 0 (Freshman) courses before entering the Honours program, as explained above.

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 113- to 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 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

CIVE 281	(3)	Analytical Mechanics
COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
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
WCOM 206	(3)	Communication in 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 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 250	(3)	Fundamentals of Software Development
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 343	(3)	Numerical Methods in Engineering
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

Note: ECSE 478N1 and ECSE 478N2 can be taken instead of ECSE 478D1 and ECSE 478D2.

Complementary Courses (23-26 credits)

Technical Complementaries

17-20 credits (5 courses) must be taken, chosen as follows:

8 credits (2 courses) from List A

6-8 credits (2 courses) from 500-level ECSE courses

3-4 credits (1 course) from List A, List B, List C or from 500-level ECSE courses

List A: Technical Complementaries with Laboratory Experience

8-12 credits from the following:

ECSE 335	(4)	Microelectronics
ECSE 403	(4)	Control
ECSE 408*	(4)	Communication Systems
ECSE 416	(4)	Telecommunication Networks
ECSE 433	(4)	Physical Basis of Transistor Devices

ECSE 444	(4)	Microprocessors
ECSE 470	(4)	Electromechanical Systems

* ECSE 408 and ECSE 511 cannot both be taken.

List B: Technical Complementaries

0-3 credits

ECSE 310	(3)	Thermodynamics of Computing
ECSE 325	(3)	Digital Systems
ECSE 415	(3)	Introduction to Computer Vision
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 435	(3)	Mixed-Signal Test Techniques
ECSE 446	(3)	Realistic Image Synthesis
ECSE 451	(3)	EM Transmission and Radiation
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)
ECSE 469*	(3)	Protection des réseaux électriques
ECSE 554	(4)	Applied Robotics

* Courses taught in French.

Non-departmental Complementary Courses

0-4 credits

COMP 445	(3)	Computational Linguistics
COMP 550	(3)	Natural Language Processing
COMP 551	(4)	Applied Machine Learning
COMP 579	(4)	Reinforcement Learning
MATH 247	(3)	Honours Applied Linear Algebra
MATH 249	(3)	Honours Complex Variables
MATH 547	(4)	Stochastic Processes
PHYS 357	(3)	Honours Quantum Physics 1
PHYS 434	(3)	Optics
PHYS 457	(3)	Honours Quantum Physics 2
PHYS 558	(3)	Solid State Physics

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations

INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Elective Course

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

6.12.5.6 Bachelor of Engineering (B.Eng.) - Computer Engineering (133 credits)

Program credit weight: 133-136 credits

Program credit weight for Quebec CEGEP students: 108-111 credits

Program credit weight for out-of-province students: 133-136 credits

The Computer Engineering program provides students with greater depth and breadth of knowledge in the hardware and software aspects of computers. Students are exposed to both theoretical and practical issues of both hardware and software in well-equipped laboratories. Although the program is designed 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, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 108- to 111 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 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 Administrative 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

26 credits

COMP 202	(3)	Foundations of Programming
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COMP 206	(3)	Introduction to Software Systems
COMP 251	(3)	Algorithms and Data Structures
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 240	(3)	Discrete Structures
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
WCOM 206	(3)	Communication in Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Computer Engineering Courses

64 credits

ECSE 200	(3)	Electric Circuits 1
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 223	(3)	Model-Based Programming
ECSE 250	(3)	Fundamentals of Software Development
ECSE 308	(4)	Introduction to Communication Systems and Networks
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 458N1 and ECSE 458N2 can be taken instead of ECSE 458D1 and ECSE 458D2.

Complementary Courses

15-18 credits

Technical Complementaries

9-12 credits (3 courses) must be taken, chosen as follows:

3-4 credits (1 course) from List A

6-8credits (2 courses) from List A or List B

List A

3-12 credits from the following:

ECSE 307	(4)	Linear Systems and Control
ECSE 335	(4)	Microelectronics
ECSE 403	(4)	Control
ECSE 408	(4)	Communication Systems
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 415	(3)	Introduction to Computer Vision
ECSE 416	(4)	Telecommunication Networks
ECSE 420	(3)	Parallel Computing
ECSE 422	(3)	Fault Tolerant Computing
ECSE 428	(3)	Software Engineering Practice
ECSE 435	(3)	Mixed-Signal Test Techniques
ECSE 439	(3)	Software Language Engineering
ECSE 508	(3)	Multi-Agent Systems
ECSE 510	(3)	Filtering and Prediction for Stochastic Systems
ECSE 544	(4)	Computational Photography

List B

0-12 credits from the following:

COMP 424**	(3)	Artificial Intelligence
COMP 445	(3)	Computational Linguistics
COMP 520	(4)	Compiler Design
COMP 550	(3)	Natural Language Processing
COMP 551*	(4)	Applied Machine Learning
COMP 559	(4)	Fundamentals of Computer Animation
COMP 579	(4)	Reinforcement Learning
ECSE 343	(3)	Numerical Methods in Engineering
ECSE 421	(3)	Embedded Systems
ECSE 424	(3)	Human-Computer Interaction
ECSE 429	(3)	Software Validation
ECSE 437	(3)	Software Delivery
ECSE 446	(3)	Realistic Image Synthesis
ECSE 472	(3)	Fundamentals of Circuit Simulation and Modelling
ECSE 500	(3)	Mathematical Foundations of Systems
ECSE 501	(3)	Linear Systems
ECSE 507	(3)	Optimization and Optimal Control
ECSE 509	(3)	Probability and Random Signals 2
ECSE 516	(3)	Nonlinear and Hybrid Control Systems
ECSE 521	(3)	Digital Communications 1
ECSE 526**	(3)	Artificial Intelligence
ECSE 532	(4)	Computer Graphics
ECSE 551	(4)	Machine Learning for Engineers
ECSE 552	(4)	Deep Learning

ECSE 557	(3)	Introduction to Ethics of Intelligent Systems
ECSE 575	(3)	Heterogeneous Integration Systems
MATH 247	(3)	Honours Applied Linear Algebra

* ECSE 551 and COMP 551 cannot both be taken.

** COMP 424 and ECSE 526 cannot both be taken.

Complementary Studies

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
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought

FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Elective Course

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

6.12.5.7 Bachelor Engineering (B.Eng.) - Co-op in Software Engineering (141 credits)

Program credit weight: 141-144 credits

Program credit weight for Quebec CEGEP students: 113-116 credits

Program credit weight for out-of-province students: 141-144 credits

Required Year 0 (Freshman) Courses

28 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 113- to 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 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).

AND 3 credits Natural Science complementary courses chosen from courses 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)

Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Non-Departmental Courses

35 credits

COMP 202	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 360	(3)	Algorithm Design
COMP 421	(3)	Database Systems
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 240	(3)	Discrete Structures
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
WCOM 206	(3)	Communication in Engineering

* Note: *CCOM 206 must be passed two terms prior to ECSE 201.

** Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Software Engineering Courses

60 credits

ECSE 200	(3)	Electric Circuits 1
ECSE 201	(2)	Co-operative Work Term 1
ECSE 205	(3)	Probability and Statistics for Engineers
ECSE 211	(3)	Design Principles and Methods
ECSE 222	(3)	Digital Logic
ECSE 223	(3)	Model-Based Programming
ECSE 250	(3)	Fundamentals of Software Development
ECSE 301	(2)	Co-operative Work Term 2
ECSE 310	(3)	Thermodynamics of Computing
ECSE 316	(3)	Signals and Networks
ECSE 321	(3)	Introduction to Software Engineering
ECSE 324	(4)	Computer Organization
ECSE 326	(3)	Software Requirements Engineering
ECSE 401	(2)	Co-operative Work Term 3
ECSE 402	(2)	Co-operative Work Term 4
ECSE 420	(3)	Parallel Computing

ECSE 427	(3)	Operating Systems
ECSE 428	(3)	Software Engineering Practice
ECSE 429	(3)	Software Validation
ECSE 458D1	(3)	Capstone Design Project
ECSE 458D2	(3)	Capstone Design Project

Note: ECSE 458N1 and ECSE 458N2 can be taken instead of ECSE 458D1 and ECSE 458D2.

Complementary Courses

15-18 credits

Technical Complementaries

9-12 credits (3 courses) must be taken, chosen as follows:

3-4 credits (1 course) from List A

6-8 credits (2 courses) from List A or List B

* COMP 350 and ECSE 343 cannot both be taken

** ECSE 551 and COMP 551 cannot both be taken

*** COMP 424 and ECSE 526 cannot both be taken

List A

3-12 credits from the following:

ECSE 325	(3)	Digital Systems
ECSE 415	(3)	Introduction to Computer Vision
ECSE 416	(4)	Telecommunication Networks
ECSE 422	(3)	Fault Tolerant Computing
ECSE 439	(3)	Software Language Engineering
ECSE 444	(4)	Microprocessors
ECSE 544	(4)	Computational Photography

List B

0-8 credits from the following:

COMP 330	(3)	Theory of Computation
COMP 350*	(3)	Numerical Computing
COMP 409	(3)	Concurrent Programming
COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424***	(3)	Artificial Intelligence
COMP 512	(4)	Distributed Systems
COMP 520	(4)	Compiler Design
COMP 521	(4)	Modern Computer Games
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
COMP 550	(3)	Natural Language Processing
COMP 551*	(4)	Applied Machine Learning
COMP 559	(4)	Fundamentals of Computer Animation

ECSE 343*	(3)	Numerical Methods in Engineering
ECSE 421	(3)	Embedded Systems
ECSE 424	(3)	Human-Computer Interaction
ECSE 425	(3)	Computer Architecture
ECSE 437	(3)	Software Delivery
ECSE 446	(3)	Realistic Image Synthesis
ECSE 507	(3)	Optimization and Optimal Control
ECSE 509	(3)	Probability and Random Signals 2
ECSE 526***	(3)	Artificial Intelligence
ECSE 532	(4)	Computer Graphics
ECSE 544	(4)	Computational Photography
ECSE 551**	(4)	Machine Learning for Engineers
ECSE 552	(4)	Deep Learning
ECSE 557	(3)	Introduction to Ethics of Intelligent Systems
MATH 247	(3)	Honours Applied Linear Algebra

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
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson 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 (3 credits)

One 3-credit course at the 200-level or higher from any department at McGill, approved by the Undergraduate Programs Office in the Department of Electrical and Computer Engineering.

6.12.6 Mechanical Engineering

6.12.6.1 Location

Macdonald Engineering Building, Room 270
 817 Sherbrooke Street West
 Montreal QC H3A 0C3
 Telephone: 514-398-6296
 Fax: 514-398-7365
 Email: ugrad.mecheng@mcgill.ca
 Website: mcgill.ca/mecheng

6.12.6.2 About the Department of Mechanical Engineering

Mechanical engineers are involved in the conception, design, implementation, and operation of mechanical systems. Typical application areas include aerospace, energy, manufacturing, machinery, and transportation. Because of the very broad nature of the discipline, there is a high demand for mechanical engineers.

Many mechanical engineers follow other career paths, including sales, finance, and management. Graduate studies are useful for the specialists working in research establishments, consulting firms, or in corporate research and development.

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

The Honours program has a greater emphasis on research and prepares students for future graduate studies. A Minor in **Aerospace Engineering** and a Concentration in **Design** are available for students in either the regular or Honours program who wish to specialize in these areas.

While the program is demanding, there is time for many extracurricular activities. Many students participate in extra-curricular design teams, such as Aerospace Design, Formula Electric, Racing, Rocketry, and Robotics. Student associations, including the McGill Association of Mechanical Engineers (MAME) and the Engineering Undergraduate Society (EUS), allow students to shape their community.

Relations between faculty and students are extremely close. Social functions, at which students and professors meet to exchange views and get to know each other, are organized frequently.

6.12.6.3 Mechanical Engineering Faculty

Chair

Rosaire Mongrain

Associate Chair (Curriculum Affairs)

Arun Misra

Associate Chair (Undergraduate Affairs)

Mathias Legrand

Associate Chair (Graduate Affairs)

TBD

Director, M.Eng. Aerospace Program

Tim Lee

Emeritus Professors

Abdul M. Ahmed; Jorge Angeles; Romuald Knystautas; John H.S. Lee; Dan F. Mateescu; Michael P. Paidoussis; Stuart J. Price.

Associate Professors (Post-Retirement)

Vince Thomson; Paul J. Zsombor-Murray.

Professors

Marco Amabili; Bantwal R. Baliga; Jeffrey M. Bergthorson; David L. Frost; Wagdi G. Habashi; Andrew J. Higgins; Pascal Hubert; Michael Kokkolaras; Jozsef Kovecses; Larry B. Lessard; Arun K. Misra; Luc Mongeau; Rosaire Mongrain; Meyer Nahon; Siva Nadarajah, Damiano Pasini; Inna Sharf.

Associate Professors

James R. Forbes; Tim Lee; Mathias Legrand; Laurent Mydlarski; Evgeny V. Timofeev; Yaoyao Fiona Zhao.

Assistant Professors

Changhong Cao; Mark Driscoll; Jianyu Li; Jovan Nedic; Audrey A. Sedal; Mélanie Tétreault-Friend.

Adjunct Professors

Helmi Attia; François Barthelat; Gilles Bourque; Mouhab Meshreki; Alireza Najafi-Yazdi.

Senior Academic Associate

Amar Sabih

6.12.6.4 Bachelor of Engineering (B.Eng.) - Mechanical Engineering (142 credits)

Program credit weight: 142 credits

Program credit weight for Quebec CEGEP students: 113 credits

Program credit weight for out-of-province students: 142 credits

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design engineering courses which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

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 113-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

33 credits

CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
ECSE 461	(3)	Electric Machinery
FACC 100	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 271	(3)	Linear Algebra and Partial Differential Equations
MIME 260	(3)	Materials Science and Engineering
WCOM 206	(3)	Communication in Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mechanical Engineering Courses

65 credits

MECH 201	(2)	Introduction to Mechanical Engineering
MECH 210	(2)	Mechanics 1
MECH 220	(4)	Mechanics 2
MECH 240	(3)	Thermodynamics 1
MECH 262	(3)	Statistics and Measurement Laboratory
MECH 290	(3)	Design Graphics for Mechanical Engineering
MECH 292	(3)	Design 1: Conceptual Design
MECH 309	(3)	Numerical Methods in Mechanical Engineering
MECH 314	(3)	Dynamics of Mechanisms
MECH 315	(4)	Mechanics 3
MECH 321	(3)	Mechanics of Deformable Solids
MECH 331	(3)	Fluid Mechanics 1
MECH 341	(3)	Thermodynamics 2
MECH 346	(3)	Heat Transfer
MECH 360	(3)	Principles of Manufacturing
MECH 362	(2)	Mechanical Laboratory 1
MECH 383	(3)	Applied Electronics and Instrumentation
MECH 393	(3)	Design 2: Machine Element Design
MECH 412	(3)	System Dynamics and Control
MECH 430	(3)	Fluid Mechanics 2
MECH 463D1	(3)	Design 3: Mechanical Engineering Project
MECH 463D2	(3)	Design 3: Mechanical Engineering Project

Technical Complementary Courses

9 credits

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 497	(3)	Value Engineering
MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2
MECH 513	(3)	Control Systems
MECH 530	(3)	Mechanics of Composite Materials
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aerospace Structures
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 553	(3)	Design and Manufacture of Microdevices
MECH 559	(3)	Engineering Systems Optimization
MECH 560	(3)	Eco-design and Product Life Cycle Assessment
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics

MECH 564	(3)	Thermal Radiation and Solar Energy Systems
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 573	(3)	Mechanics of Robotic Systems

* Students select either CHEE 563 or MECH 563.

3 credits chosen from courses at the 300 level or higher (approved by the Department) in the Faculty of Engineering (including MECH courses) or from courses in the Faculty of Science, including MATH courses.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
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 one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology

ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Typical Program of Study

Students entering the program from CEGEP follow a different course of study from those entering from out of province. Students will be advised by the Department as to which courses they should select from the course lists above.

For a detailed curriculum, see <http://www.mcgill.ca/mecheng/undergrad/curriculum>.

For all minors and concentrations, students should complete a Course Authorization Form, available from the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) or from the Undergraduate Program Coordinator, indicating their intention to take the minor or concentration.

6.12.6.5 Bachelor of Engineering (B.Eng.) - Honours Mechanical Engineering (142 credits)

Program credit weight: 142 credits

Program credit weight for Quebec CEGEP students: 113 credits

Program credit weight for out-of-province students: 142 credits

To prepare the mechanical engineer for a wide range of career possibilities, there is a heavy emphasis in our curriculum on the fundamental analytical disciplines. This is balanced by a sequence of experimental and design Engineering courses, which include practice in design, manufacturing, and experimentation. In these courses, students learn how to apply their analytical groundwork to the solution of practical problems.

The Honours program is particularly suitable for those with a high aptitude in mathematics and physics and gives a thorough grounding in the basic engineering sciences.

Special interests are satisfied by selecting appropriate complementary courses from among those offered with a specific subject concentration, such as management, industrial engineering, computer science, controls and robotics, bio-engineering, aeronautics, combustion, systems engineering, etc.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 113-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

27 credits

CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
FACC 100*	(1)	Introduction to the Engineering Profession
FACC 250	(0)	Responsibilities of the Professional Engineer
FACC 300	(3)	Engineering Economy
FACC 400	(1)	Engineering Professional Practice
MATH 262	(3)	Intermediate Calculus
MATH 263	(3)	Ordinary Differential Equations for Engineers
MATH 264	(3)	Advanced Calculus for Engineers
MATH 271	(3)	Linear Algebra and Partial Differential Equations
WCOM 206	(3)	Communication in Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mechanical Engineering Courses

62 credits

MECH 201	(2)	Introduction to Mechanical Engineering
MECH 210	(2)	Mechanics 1
MECH 220	(4)	Mechanics 2
MECH 240	(3)	Thermodynamics 1
MECH 262	(3)	Statistics and Measurement Laboratory
MECH 290	(3)	Design Graphics for Mechanical Engineering
MECH 292	(3)	Design 1: Conceptual Design
MECH 309	(3)	Numerical Methods in Mechanical Engineering
MECH 321	(3)	Mechanics of Deformable Solids
MECH 331	(3)	Fluid Mechanics 1
MECH 341	(3)	Thermodynamics 2
MECH 346	(3)	Heat Transfer
MECH 360	(3)	Principles of Manufacturing
MECH 362	(2)	Mechanical Laboratory 1
MECH 383	(3)	Applied Electronics and Instrumentation

MECH 403D1	(3)	Thesis (Honours)
MECH 403D2	(3)	Thesis (Honours)
MECH 404	(3)	Honours Thesis 2
MECH 419	(4)	Advanced Mechanics of Systems
MECH 430	(3)	Fluid Mechanics 2
MECH 494	(3)	Honours Design Project

Technical Complementary Courses

18 credits

3 credits from the following, chosen with the approval of either the thesis supervisor or the coordinator of the Honours program, when a thesis supervisor has not yet been secured:

MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 417	(3)	Linear Optimization
MATH 478	(3)	Computational Methods in Applied Mathematics

6 credits from the following:

MECH 513	(3)	Control Systems
MECH 546	(3)	Finite Element Methods in Solid Mechanics
MECH 559*	(3)	Engineering Systems Optimization
MECH 562	(3)	Advanced Fluid Mechanics
MECH 578	(3)	Advanced Thermodynamics
MECH 579*	(3)	Multidisciplinary Design Optimization

*Note: Students select either MECH 559 or MECH 579.

6 credits at the 300 level or higher, chosen from Mechanical Engineering courses (subject code MECH). One of these two courses (3 credits) must be from the following list:

CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 497	(3)	Value Engineering
MECH 498	(3)	Interdisciplinary Design Project 1
MECH 499	(3)	Interdisciplinary Design Project 2
MECH 513	(3)	Control Systems
MECH 530	(3)	Mechanics of Composite Materials
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 535	(3)	Turbomachinery and Propulsion
MECH 536	(3)	Aerospace Structures
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 553	(3)	Design and Manufacture of Microdevices
MECH 559	(3)	Engineering Systems Optimization
MECH 560	(3)	Eco-design and Product Life Cycle Assessment
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics

MECH 564	(3)	Thermal Radiation and Solar Energy Systems
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 573	(3)	Mechanics of Robotic Systems

*Students choose 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 MIME 260 or from courses at the 300 level or higher in the Faculty of Science, including MATH courses.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
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 one of the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology

ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

Typical Program of Study

Students entering the program from Quebec CEGEPs follow a different course of study 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.

6.12.6.6 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 528	(3)	Product Design
MECH 530	(3)	Mechanics of Composite Materials
MECH 543	(3)	Design with Composite Materials
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 579	(3)	Multidisciplinary Design Optimization

6.12.6.7 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, 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 528	(3)	Product Design
MECH 530	(3)	Mechanics of Composite Materials
MECH 543	(3)	Design with Composite Materials
MECH 565	(3)	Fluid Flow and Heat Transfer Equipment
MECH 579	(3)	Multidisciplinary Design Optimization

6.12.7 Mining and Materials Engineering

6.12.7.1 Location

General Office:

Wong Building, Room 2140
3610 University Street
Montreal QC H3A 0C5
Website: mcgill.ca/minmat

Materials:

Wong Building, Room 2140
3610 University Street
Montreal QC H3A 0C5
Telephone: 514-398-1040
Fax: 514-398-4492
Email: coordinator.minmat@mcgill.ca
Website: mcgill.ca/materials

Mining:

Frank Dawson Adams Building, Room 125
 3450 University Street
 Montreal QC H3A 0E8
 Telephone: 514-398-2215
 Fax: 514-398-7099
 Email: admin.mining@mcgill.ca
 Website: mcgill.ca/mining

6.12.7.2 About the Department of Mining and Materials Engineering

The Department of Mining and Materials Engineering offers programs leading to the Bachelor of 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.

For more information, refer to:

- Materials Engineering – [section 6.12.7.4.3: Bachelor of Engineering \(B.Eng.\) - Materials Engineering \(148 credits\)](#) and [section 6.12.7.4.4: Bachelor of Engineering \(B.Eng.\) - Co-op in Materials Engineering \(148 credits\)](#)
- Mining Engineering – and [section 6.12.7.5.3: Bachelor of Engineering \(B.Eng.\) - Mining Engineering \(144 credits\)](#) and [section 6.12.7.5.4: Bachelor of Engineering \(B.Eng.\) - Co-op in Mining Engineering \(150 credits\)](#)

6.12.7.2.1 Scholarships

The Department offers renewable Entrance Scholarships every year. A substantial number of other scholarships and bursaries are also awarded by the Department, as well as by the Canadian Mineral Industry Education Foundation, Canadian Institute of Mining Foundation, Quebec Mining Association, and others.

Please refer to the Faculty of Engineering website's [Scholarships and Financial Aid](#) section for more information.

6.12.7.3 Mining and Materials Engineering Faculty

Department Chair

Richard Chromik

Associate Chair, Materials Engineering

Jun Song

Associate Chair & Graduate Program Director

Mathieu Brochu

Graduate Program Coordinator

Barbara Hanley

Emeritus Professors

James A. Finch; John E. Gruzleski; John J. Jonas; Gordon W. Smith.

Professors

Marta Cerruti; Richard Chromik; George P. Demopoulos; Roussos Dimitrakopoulos; Raynald Gauvin; Roderick I.L. Guthrie; Faramarz (Ferri) P. Hassani; Hani S. Mitri; Mihriban Pekguleryuz; Stephen Yue.

Associate Professors

Kirk Bevan; Mathieu Brochu; Mainul Hasan; Mustafa Kumral; Showan Nazhat; Sidney Omelon; Nathaniel Quitoriano; Agus Pulung Sasmito; Jun Song; Kristian Waters.

Assistant Professor

Jinhyuk Lee; Alessandro Navarra; Philippe Ouzilleau.

Adjunct Professors

Behnam Ashrafi; Salim Brahim; Alexandros Charitos; Michel Gamache; Tassos Grammatikopoulos; Ahmad Hemami; Alice Jarry; Luis Javier Montiel Petro; Amina Lamghari; Jan Nessel; Jimi Sauw-Yoeng Tjong; Michel Trudeau; Priti Wanjara; Karim Zaghbi.

Senior Faculty Lecturer

Florence Paray

Faculty Lecturer – Mining

Shahe Shnorhokian

Co-op Program Liaison OfficersGenevieve Snider (*Materials*); Lisa Thiess (*Mining*).**6.12.7.4 About Materials Engineering****6.12.7.4.1 Co-op in Materials Engineering**

The Materials Engineering degree is a cooperative program leading to a **B.Eng.**, and includes formal industrial work periods. It is built on a strong background of mathematics, basic sciences, computer skills and applications, and specific engineering and design courses to provide up-to-date training in materials engineering. Students take core courses covering processing, fabrication, applications, and performance of materials.

The program is fully accredited by the Canadian Engineering Accreditation Board (CEAB) and is designed to offer students exceptional training for employment in the field.

The core courses are supplemented by complementary courses, which provide a diverse selection of specialties for the graduating engineer. The course structure is reinforced with laboratory exercises. Graduates find employment in a wide range of industries, including the resource and manufacturing sectors. Students in the Co-op program benefit from practical learning experience gained from work-term employment in meaningful engineering jobs, as well as non-tangible learning experiences arising from the responsibilities required to obtain and successfully complete the work terms.

Regarding the Co-op **program fees**, an amount of \$251.41 will be billed during ten consecutive terms for a total amount of \$2,514.10 before graduation. These fees cover expenses directly related to the operation of the Co-op program. Students must register for each of their industrial training courses within the university registration period for returning students or late fees will apply. Before registering for any work term course, students must contact the Co-op in Materials Engineering Liaison Officer for approval.

6.12.7.4.2 Student Advising

Students entering this program must plan their schedule of studies in consultation with one of the departmental advisers. Appointments may be obtained by contacting the Administrative and Student Affairs Coordinator.

For more information, please refer to the [Academic Advising](#) section of our website.

6.12.7.4.3 Bachelor of Engineering (B.Eng.) - Materials Engineering (148 credits)

Program credit weight: 148 credits

Program credit weight for Quebec CEGEP students: 119 credits

Students wanting to study Materials Engineering may only be admitted into the B.Eng.; Co-op in Materials Engineering program. There is no direct admission to the B.Eng.; Materials Engineering program (which does not include the work terms required for the Co-op program). Students can transfer from the B.Eng.; Co-op in Materials Engineering to the B.Eng.; Materials Engineering program once they have met certain requirements and obtained approval from the departmental adviser.

The department offers a Major in Materials Engineering leading to an accredited B.Eng. degree in Materials Engineering. Materials are used to enact every human technology and have shaped key eras in history. Major in Materials Engineering students will have the opportunity to learn the fundamental science and engineering of materials through the materials processing pipeline, including how to enrich mineral-poor ore, how to process the materials into the desired microstructures and compositions, and how to use these materials in various applications (aerospace, electronics, and biological systems). With the choice of technical complementary courses, students have an opportunity to specialize and strengthen key materials technologies or broaden their horizons and take courses from several interdisciplinary areas.

Students entering this program must plan their schedule of studies in consultation with a departmental adviser.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 119-credit program.

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

36 credits

CHEM 233	(3)	Topics in Physical Chemistry
CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
ECSE 209	(3)	Electrotechnology
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
WCOM 206	(3)	Communication in Engineering

* 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)	Interface Design: Biomimetic Approach
CIVE 512	(3)	Advanced Civil Engineering Materials
MECH 530	(3)	Mechanics of Composite Materials
MIME 410	(3)	Materials Research Project
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 515*	(3)	(Bio)material Surface Analysis and Modification
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
MIME 559	(3)	Aluminum Physical Metallurgy
MIME 560	(3)	Joining Processes
MIME 561	(3)	Advanced Materials Design
MIME 563	(3)	Hot Deformation of Metals
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
MIME 568	(3)	Topics in Advanced Materials
MIME 569	(3)	Electron Beam Analysis of Materials
MIME 570	(3)	Micro- and Nano-Fabrication Fundamentals
MIME 571	(3)	Surface Engineering
MIME 572	(3)	Computational Thermodynamics
MIME 580	(3)	Additive Manufacturing Using Metallic and Ceramic Materials

* Students choose either CHEE 515 or MIME 515, offered in alternate years.

6 credits may be taken from courses outside of the Department of Mining and Materials Engineering, with department approval.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
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BTEC 502	(3)	Biotechnology Ethics and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour

MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* 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.

6.12.7.4.4 Bachelor of Engineering (B.Eng.) - Co-op in Materials Engineering (148 credits)

Program credit weight: 148 credits

Program credit weight for Quebec CEGEP students: 119 credits

The Department offers a Co-op in Materials Engineering program leading to an accredited B.Eng. degree in Materials Engineering. Materials are used to enact every human technology and have shaped key areas of history. In the Co-op in Materials Engineering, students will have the opportunity to learn the fundamental science and engineering of materials and complete three work-term semesters. The program spans the materials processing pipeline, teaching students how to enrich mineral-poor ore, then to process the materials into the desired microstructures and compositions and finally how to use these materials in various applications (aerospace, electronics and biological systems). With the choice of technical complementary courses, students have an opportunity to specialize and strengthen key materials technologies or broaden their horizons and take courses from several interdisciplinary areas.

Students entering this program must plan their schedule of studies in consultation with a departmental adviser.

Required Year 0 (Freshman) Courses

29 credits

Generally, students admitted to Engineering from Quebec CEGEPs are granted transfer credit for these Year 0 (Freshman) courses and enter a 119-credit program.

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

36 credits

CHEM 233	(3)	Topics in Physical Chemistry
CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
ECSE 209	(3)	Electrotechnology
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
WCOM 206	(3)	Communication in Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Materials Engineering Courses

68 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 280	(2)	Industrial Training 1
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 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)	Interface Design: Biomimetic Approach
CIVE 512	(3)	Advanced Civil Engineering Materials
MECH 530	(3)	Mechanics of Composite Materials

MIME 410	(3)	Materials Research Project
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 515*	(3)	(Bio)material Surface Analysis and Modification
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 553	(3)	Impact of Materials Production
MIME 556	(3)	Sustainable Materials Processing
MIME 558	(3)	Engineering Nanomaterials
MIME 559	(3)	Aluminum Physical Metallurgy
MIME 560	(3)	Joining Processes
MIME 561	(3)	Advanced Materials Design
MIME 563	(3)	Hot Deformation of Metals
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
MIME 568	(3)	Topics in Advanced Materials
MIME 569	(3)	Electron Beam Analysis of Materials
MIME 570	(3)	Micro- and Nano-Fabrication Fundamentals
MIME 571	(3)	Surface Engineering
MIME 572	(3)	Computational Thermodynamics
MIME 580	(3)	Additive Manufacturing Using Metallic and Ceramic Materials

* Students choose either CHEE 515 or MIME 515, offered in alternate years.

0-3 credits may be taken from courses outside of the Department of Mining and Materials Engineering, with departmental approval.

Complementary Studies

6 credits

Group A - Impact of Technology on Society

3 credits from the following:

ANTH 212	(3)	Anthropology of Development
BTEC 502	(3)	Biotechnology Ethics and Society
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment

SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* 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 course are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

6.12.7.5 About Mining Engineering

6.12.7.5.1 Co-op in Mining Engineering

McGill is proud to be the host of the oldest mining engineering program in Canada, which started in 1871. The program is known for the excellence of its courses as well as the training it provides in mining science and technology, mineral economics, mine planning, rock mechanics, renewable energy, and mine design. Mining offers excellent career opportunities in Canada and around the world. There have been rapid technological developments in recent years, presenting numerous challenges to students with strong interest in engineering and a taste for innovation.

The Department offers a co-operative program leading to an accredited **B.Eng.** degree in Mining Engineering. It includes three paid industrial work terms. The Department has a dedicated Mining Co-op Liaison Officer to help the students find jobs in industry. The program is offered in one of two streams: English Stream for high school students and Bilingual Stream for CEGEP students, in collaboration with the mining engineering program at *Polytechnique Montréal* in Montreal. Students in the Bilingual Stream take six mining courses at Polytechnique Montréal at the latter part of the program. The teaching and learning style in mining courses is one that permits the students to sharpen their communication skills - both written and oral and develop their team working skills.

A wide range of scholarships are available to new and continuing students from the Department, Faculty of Engineering, as well as from industry. The Department provides financial support to students who are willing to participate in mining competitions, such as the Canadian Mining Games and World Mining Competition.

When taking a Co-op work term, students must register for MIME 290, MIME 291, and MIME 392; thus, Co-op work terms appear on the student transcript. Interested students may also take a fourth work term as a complementary course and a fifth one as an extra course.

6.12.7.5.2 Student Advising

The Department gives priority to their academic advising service. Each student in the mining engineering program is assigned an academic adviser at the start of their study at McGill and for the duration of their undergraduate degree. Our academic advising service ensures quality and individual guidance to each student in the program. Students will meet with their adviser at least once a year to discuss their progress and interest in exchange with other mining schools or taking a minor in their areas of interest among other things.

For more information, please refer to the [Academic Advising](#) section of our website.

6.12.7.5.3 Bachelor of Engineering (B.Eng.) - Mining Engineering (144 credits)

Enrolment in this program is subject to departmental approval, please consult with an Academic Advisor within the appropriate program further to discuss your suitability in this program.

The Department offers a Major in Mining Engineering Program leading to an accredited B.Eng. degree in Mining Engineering. The program focuses on the science and engineering of sustainable extraction of mineral resources. It contains two streams: English for non-CEGEP students and Bilingual (six courses in French) for CEGEP students, in collaboration with the mining engineering program at Polytechnique Montreal. The program includes projects that are 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)

CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
ECSE 209	(3)	Electrotechnology
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
WCOM 206	(3)	Communication in Engineering

* 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 Polytechnique Montréal

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
CIVE 421	(3)	Municipal Systems
CIVE 514	(3)	Structural Mechanics
CIVE 584	(3)	Mechanics of Groundwater Flow
EPSC 320	(3)	Elementary Earth Physics
EPSC 549	(3)	Hydrogeology
FINE 482	(3)	International Finance 1
MIME 290	(2)	Industrial Work Period 1
MIME 320	(3)	Extraction of Energy Resources
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 484	(3)	Mining Project
MIME 511	(3)	Advanced Subsurface Ventilation and Air Conditioning
MIME 514	(3)	Sustainability Analysis of Mining Systems
MIME 520	(3)	Stability of Rock Slopes
MIME 527	(3)	Selected Topics in Mineral Resource Engineering
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MIME 588	(3)	Reliability Analysis of Mining Systems
MPMC 320*	(3)	CAO et informatique pour les mines

* Mining courses taken at Polytechnique Montréal

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
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies and Law

3 credits at the 200-level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR

3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2

INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2
MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson Adams Building, Room 22) or email an adviser.

Note regarding language courses: Language courses are not accepted to satisfy the Complementary Studies Group B requirement, effective for students who entered the program as of Fall 2017.

6.12.7.5.4 Bachelor of Engineering (B.Eng.) - Co-op in Mining Engineering (150 credits)

Program credit weight: 150-151 credits

Program credit weight for Quebec CEGEP students: 121-122 credits

The Department offers a Co-op in Mining Engineering Program leading to an accredited B.Eng. degree in Mining Engineering. The program focuses on the science and engineering of sustainable extraction of mineral resources. It contains two streams: English for non-CEGEP students and Bilingual (six courses in French) for CEGEP students, in collaboration with the mining engineering program at Polytechnique Montreal. The program includes projects that are reinforced by field trips to industrial operations as well as three industrial work terms. 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.

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 121- to 123-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

37 credits

CIVE 205	(3)	Statics
CIVE 207	(4)	Solid Mechanics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
ECSE 209	(3)	Electrotechnology

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
WCOM 206	(3)	Communication in Engineering

* Note: FACC 100 (Introduction to the Engineering Profession) must be taken during the first year of study.

Required Mining Engineering Courses

53 credits

MIME 200	(3)	Introduction to the Minerals Industry
MIME 203	(2)	Mine Surveying
MIME 209	(3)	Mathematical Applications
MIME 260	(3)	Materials Science and Engineering
MIME 290	(2)	Industrial Work Period 1
MIME 291	(2)	Industrial Work Period 2
MIME 322	(3)	Rock Fragmentation
MIME 323	(3)	Rock and Soil Mass Characterization
MIME 325	(3)	Mineral Industry Economics
MIME 333	(3)	Materials Handling
MIME 340	(3)	Applied Fluid Dynamics
MIME 341	(3)	Introduction to Mineral Processing
MIME 392	(2)	Industrial Work Period 3
MIME 413	(3)	Strategic Mine Planning With Uncertainty
MIME 419	(3)	Surface Mining
MIME 422	(3)	Mine Ventilation
MIME 425	(3)	Applied Stochastic Orebody Modelling
MIME 426	(6)	Mine Design and Prefeasibility Study

Complementary Courses

31-32 credits

17 credits from one of Stream A or Stream B

Stream A - CEGEP Students

CEGEP students must take the following courses:

MPMC 321*	(3)	Mécanique des roches et contrôle des terrains
MPMC 326*	(3)	Recherche opérationnelle I
MPMC 328*	(3)	Environnement et gestion des rejets miniers

MPMC 329*	(2)	Géologie minière
MPMC 330*	(3)	Géotechnique minière
MPMC 421*	(3)	Exploitation en souterrain

* Mining courses taken at Polytechnique Montréal

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 (including mathematics courses).

Note: Not all courses are given annually; see the "Courses" section of this eCalendar to know if a course is offered.

CFIN 410	(3)	Investment and Portfolio Management
CIVE 416	(3)	Geotechnical Engineering
CIVE 421	(3)	Municipal Systems
CIVE 514	(3)	Structural Mechanics
CIVE 584	(3)	Mechanics of Groundwater Flow
EPSC 320	(3)	Elementary Earth Physics
EPSC 549	(3)	Hydrogeology
FINE 482	(3)	International Finance 1
MIME 320	(3)	Extraction of Energy Resources
MIME 442	(3)	Analysis, Modelling and Optimization in Mineral Processing
MIME 484	(3)	Mining Project
MIME 494	(2)	Industrial Work Period 4
MIME 511	(3)	Advanced Subsurface Ventilation and Air Conditioning
MIME 514	(3)	Sustainability Analysis of Mining Systems
MIME 520	(3)	Stability of Rock Slopes
MIME 527	(3)	Selected Topics in Mineral Resource Engineering
MIME 544	(3)	Analysis: Mineral Processing Systems 1
MIME 545	(3)	Analysis: Mineral Processing Systems 2
MIME 588	(3)	Reliability Analysis of Mining Systems
MPMC 320*	(3)	CAO et informatique pour les mines

* Mining course taken at Polytechnique Montréal

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
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 201	(3)	Society, Environment and Sustainability
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 203	(3)	Environmental Systems
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 302	(3)	Environmental Management 1
MGPO 440*	(3)	Strategies for Sustainability
PHIL 343	(3)	Biomedical Ethics
RELG 270	(3)	Religious Ethics and the Environment
SOCI 235	(3)	Technology and Society
SOCI 312	(3)	Sociology of Work and Industry
URBP 201	(3)	Planning the 21st Century City

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

Group B - Humanities and Social Sciences, Management Studies, and Law

3 credits at the 200 level or higher from the following departments:

Anthropology (ANTH)

Economics (any 200- or 300-level course excluding ECON 227 and ECON 337)

History (HIST)

Philosophy (excluding PHIL 210 and PHIL 310)

Political Science (POLI)

Psychology (excluding PSYC 204 and PSYC 305, but including PSYC 100)

Religious Studies (RELG) (excluding courses that principally impart language skills, such as Sanskrit, Tibetan, Tamil, New Testament Greek, and Biblical Hebrew) ***

School of Social Work (SWRK)

Sociology (excluding SOCI 350)

OR 3 credits from the following:

ARCH 528	(3)	History of Housing
BUSA 465*	(3)	Technological Entrepreneurship
CLAS 203	(3)	Greek Mythology
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 400	(3)	Environmental Thought
FACC 220	(3)	Law for Architects and Engineers
FACC 500	(3)	Technology Business Plan Design
FACC 501	(3)	Technology Business Plan Project
HISP 225	(3)	Hispanic Civilization 1
HISP 226	(3)	Hispanic Civilization 2
INDR 294*	(3)	Introduction to Labour-Management Relations
INTG 201**	(3)	Integrated Management Essentials 1
INTG 202**	(3)	Integrated Management Essentials 2

MATH 338	(3)	History and Philosophy of Mathematics
MGCR 222*	(3)	Introduction to Organizational Behaviour
MGCR 352*	(3)	Principles of Marketing
ORGB 321*	(3)	Leadership
ORGB 423*	(3)	Human Resources Management

* Note: Management courses have limited enrolment and registration dates. See Important Dates at <http://www.mcgill.ca/importantdates>.

** Note: INTG 201 and INTG 202 are not open to students who have taken certain Management courses. Please see the INTG 201 and INTG 202 course information for a list of these courses.

*** If you are uncertain whether or not a course principally imparts language skills, please see an adviser in the McGill Engineering Student Centre (Frank Dawson 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.

6.12.8 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
 Website: mcgill.ca/urbanplanning

6.12.8.2 About the School of Urban Planning

Urban planning can be described as the collective management of urban growth and development. It is concerned with the welfare of communities, control of how land is accessed and used by private parties, design of the built environment (including transportation and communication networks), and conservation and enhancement of healthy ecosystems. Contemporary preoccupations include addressing the climate emergency, embracing interculturalism in planning and governance, enhancing public health, and striving for just sustainabilities. 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.

The 19th-century origins of modern urban planning as a profession were largely in 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 a 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 multidisciplinary nature is still a hallmark of planning practice and of planning education. In recent decades, important transformations have included bringing the critical 'cultural turn' of social sciences to bear on planning, increased emphasis on social justice, and enhancing the strategic roles of planners as interdisciplinary actors working with peers in other professions on the challenges and opportunities of human settlements in the Global North and South.

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 two-year 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 engagement in the global context as well as in Montreal and across Canada. 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/ae 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 affordable housing to transportation planning, from real-estate development to the use of big data in public policy. Cross-disciplinary work in urban design and landscape planning continues apace and increasing emphasis is now placed on resilience, social equity, and redistributive justice.

The objective of the School is to enable urban planners to exercise leadership in the public, private, and community sectors. Training is provided at the graduate level. The main degree offered is the **Master of Urban Planning (M.U.P.)**. Many specializations are possible within the program, including two formal concentrations in Transportation Planning and in Urban Development and Urban Design. Details concerning these concentrations can be found at mcgill.ca/urbanplanning/programs/mup-transportation-planning (see also tram.mcgill.ca), and at mcgill.ca/urbanplanning/programs/mup-urban-development-and-urban-design, respectively. Upon completion of the two-year program of studies, graduates are expected to have acquired basic planning skills, a broad understanding of urban issues, and specialized knowledge in a field of their own choice.

The professional program of study offered by the School is fully recognized by the *Ordre des Urbanistes du Québec* (O.U.Q.) and the Canadian Institute of Planners (C.I.P.). Graduates may become full members of the O.U.Q. and other provincial planning associations, and therefore of C.I.P., by completing their respective internship and examination requirements. For details concerning the M.U.P. admission requirements and curriculum, consult the School's [website](#).

Although the M.U.P. program is primarily a professional degree program, it does have an independent research component. The work done on the Supervised Research Project in the course of the second year of study qualifies for funding from federal agencies such as SSHRC and NSERC. Some students enter the M.U.P. program with fellowships from these agencies; others obtain them after joining the School, for their second year of study.

The School of Urban Planning hosts a number of events that are open to undergraduate students and to the public: the Brenda and Samuel Gewurz Lectures in Urban Design bring speakers of international calibre to McGill; and the Friday seminar series (held occasionally) brings speakers from academia, the profession, and the community to talk about contemporary urban issues.

For details of the M.U.P. admission requirements and curriculum, consult the [Faculty of Engineering](#) section for Graduate and Postdoctoral Studies. The School also offers a PhD program in Urban Planning, Policy and Design; information and admission requirements for this program can also be found on the Faculty website and on the School website.

6.12.8.3 Undergraduate Courses in Urban Planning

The following courses taught by faculty in the School of Urban Planning are open to undergraduate students:

Undergraduate Courses in Urban Planning		
ARCH 520	(3)	Montreal: Urban Morphology
URBP 201	(3)	Planning the 21st Century City
URBP 501	(2)	Principles and Practice 1
URBP 504	(3)	Planning for Active Transportation
URBP 505	(3)	Geographic Information Systems
URBP 506	(3)	Environmental Policy and Planning
URBP 507	(3)	Planning and Infrastructure
URBP 514	(4)	Community Design Workshop
URBP 519	(6)	Sustainable Development Plans
URBP 520	(3)	Globalization: Planning and Change
URBP 530	(3)	Urban Environmental Planning
URBP 536	(2)	Current Issues in Transportation 1
URBP 537	(2)	Current Issues in Transportation 2
URBP 541	(1)	Selected Topics in Planning
URBP 542	(1)	Selected Topics in Visual Analysis
URBP 551	(3)	Urban Design and Planning
URBP 553	(3)	Urban Governance
URBP 555	(3)	Real Estate and Planning
URBP 556	(3)	Urban Economy: A Spatial Perspective
URBP 557	(3)	Rethinking Zoning

6.12.8.4 Urban Planning Faculty

Director
Richard Shearmur
Emeritus Professor
Jane Matthews-Glenn
Professor (Post-Retirement)
David Brown

Professors

Ahmed El-Geneidy; Richard Shearmur.

Associate Professors

Madhav G. Badami.; Lisa Bornstein; Nik Luka; David Wachsmuth.

Assistant Professor

Anna Kramer

Adjunct Professors

Suzanne Doucet; Jayne Engle; Gorka Espiau; Nilson Espino; Murtaza Haider; Marc-André LeChasseur; Mario Polèse; Ray Tomalty.

Associate Members

Kevin Manaugh; Sarah Moser.

6.12.9 Other Engineering 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 fully accredited curriculum in bioresource engineering to meet requirements for a professional engineering 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: mcgill.ca/bioeng

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.

For enrolment in any other minors available at the University which is not listed below, please consult an adviser at MESC.



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 through the [Minor Webform](#) 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 Applied Artificial Intelligence \(22-25 credits\) \(25 credits\)](#)
- [section 6.12.10.3: Bachelor of Engineering \(B.Eng.\) - Minor Arts \(24 credits\)](#)
- [section 6.12.10.4: Bachelor of Engineering \(B.Eng.\) - Minor Biomedical Engineering \(21 credits\)](#)
- [section 6.12.10.5: Bachelor of Engineering \(B.Eng.\) - Minor Biotechnology \(for Engineering Students\) \(24 credits\)](#)
- [section 6.12.10.6: Bachelor of Engineering \(B.Eng.\) - Minor Chemistry \(25 credits\)](#)

- *section 6.12.10.7: Computer Science Courses and Minor Program*
- *section 6.12.10.8: Bachelor of Engineering (B.Eng.) - Minor Construction Engineering and Management (24 credits)*
- *section 6.12.10.9: Bachelor of Engineering (B.Eng.) - Minor Economics (18 credits)*
- *section 6.12.10.10: Minor in Environment*
- *section 6.12.10.11: Bachelor of Engineering (B.Eng.) - Minor Environmental Engineering (21 credits)*
- *section 6.12.10.12: Minor Programs in Finance, Management, Marketing, and Operations Management*
- *section 6.12.10.13: Bachelor of Engineering (B.Eng.) - Minor Materials Engineering (24 credits)*
- *section 6.12.10.14: Bachelor of Engineering (B.Eng.) - Minor Mathematics (18 credits)*
- *section 6.12.10.15: Bachelor of Engineering (B.Eng.) - Minor Mining Engineering (23 credits)*
- *section 6.12.10.16: Minor in Musical Science and Technology*
- *section 6.12.10.17: Bachelor of Engineering (B.Eng.) - Minor Nanotechnology (21 credits)*
- *section 6.12.10.18: Bachelor of Engineering (B.Eng.) - Minor Physics (18 credits)*
- *section 6.12.10.19: Bachelor of Engineering (B.Eng.) - Minor Software Engineering (18 credits)*
- *section 6.12.10.20: Bachelor of Engineering (B.Eng.) - Minor Technological Entrepreneurship (18 credits)*

6.12.10.1 Bachelor of Engineering (B.Eng.) - Minor Aerospace Engineering (24 credits)

The Minor is designed for engineering students wishing to pursue a career in aerospace engineering. The program covers fundamental aircraft and spacecraft design and the certification process. The program includes further specialization in the following streams: aerodynamics and propulsion, structural analysis, materials and processes, spacecraft engineering and systems and avionics. A capstone aerospace design project is offered in the last year of the program in collaboration with the local aerospace companies.

The Minor in Aerospace Engineering is offered by the McGill Institute of Aerospace Engineering and is open to all students in engineering programs.

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)

6 credits from list below:

AERO 460D1	(3)	Aerospace Project
AERO 460D2	(3)	Aerospace Project
ECSE 458D1*	(3)	Capstone Design Project
ECSE 458D2*	(3)	Capstone Design Project
ECSE 478D1*	(3)	Electrical Engineering Honours Thesis
ECSE 478D2*	(3)	Electrical Engineering Honours Thesis
MECH 403D1*	(3)	Thesis (Honours)
MECH 403D2*	(3)	Thesis (Honours)
MECH 463D1*	(3)	Design 3: Mechanical Engineering Project
MECH 463D2*	(3)	Design 3: Mechanical Engineering Project

* An aerospace engineering project or honours thesis will be defined for students enrolled in the Minor and approved by the Minor Adviser.

And

12 credits from one of the following streams:

Students may take one complementary course outside of their stream, but their selection must be approved by the Minor Adviser prior to the registration for the course.

Aerodynamics and Propulsion Stream

MECH 447	(3)	Combustion
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MECH 516	(3)	Computational Gasdynamics
MECH 532	(3)	Aircraft Performance, Stability and Control
MECH 533	(3)	Subsonic Aerodynamics
MECH 535	(3)	Turbomachinery and Propulsion
MECH 539	(3)	Computational Aerodynamics
MECH 562	(3)	Advanced Fluid Mechanics
MECH 566	(3)	Fluid-Structure Interactions
MECH 579	(3)	Multidisciplinary Design Optimization

Aircraft Structures Stream

MECH 530	(3)	Mechanics of Composite Materials
MECH 536	(3)	Aerospace Structures
MECH 543	(3)	Design with Composite Materials
MECH 544	(3)	Processing of Composite Materials
MECH 546	(3)	Finite Element Methods in Solid Mechanics
MECH 550	(3)	Vibrations of Continuous Systems
MECH 551	(3)	Nonlinear Dynamics of Shell Structures
MECH 567	(3)	Structural Dynamics of Turbomachines
MIME 560	(3)	Joining Processes
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes

Spacecraft and Systems Stream

GEOG 308	(3)	Remote Sensing for Earth Observation
MECH 513	(3)	Control Systems
MECH 536	(3)	Aerospace Structures
MECH 542	(3)	Spacecraft Dynamics
MECH 546	(3)	Finite Element Methods in Solid Mechanics
MECH 550	(3)	Vibrations of Continuous Systems
MECH 559	(3)	Engineering Systems Optimization
MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
PHYS 320	(3)	Introductory Astrophysics

Material and Processes Stream

CHEE 515*	(3)	Interface Design: Biomimetic Approach
CHEE 541	(3)	Electrochemical Engineering
CHEE 543	(3)	Plasma Engineering
MECH 544	(3)	Processing of Composite Materials
MIME 512	(3)	Corrosion and Degradation of Materials
MIME 515*	(3)	(Bio)material Surface Analysis and Modification
MIME 559	(3)	Aluminum Physical Metallurgy
MIME 560	(3)	Joining Processes
MIME 563	(3)	Hot Deformation of Metals

MIME 565	(3)	Aerospace Metallic-Materials and Manufacturing Processes
MIME 571	(3)	Surface Engineering
MIME 580	(3)	Additive Manufacturing Using Metallic and Ceramic Materials

* Students may choose only one of CHEE 515 or MIME 515.

Avionics Stream

ECSE 403	(4)	Control
ECSE 408	(4)	Communication Systems
ECSE 412	(3)	Discrete Time Signal Processing
ECSE 420	(3)	Parallel Computing
ECSE 421	(3)	Embedded Systems
ECSE 422	(3)	Fault Tolerant Computing
ECSE 425	(3)	Computer Architecture
ECSE 427	(3)	Operating Systems
ECSE 429	(3)	Software Validation
ECSE 444	(4)	Microprocessors
ECSE 465	(3)	Power Electronic Systems
ECSE 501	(3)	Linear Systems
ECSE 507	(3)	Optimization and Optimal Control
ECSE 511	(3)	Introduction to Digital Communication
ECSE 512	(3)	Digital Signal Processing 1
ECSE 513	(3)	Robust Control Systems
ECSE 516	(3)	Nonlinear and Hybrid Control Systems
ECSE 524	(3)	Interconnects and Signal Integrity
ECSE 565	(3)	Introduction to Power Electronics
ECSE 593	(3)	Antennas and Propagation

6.12.10.2 Bachelor of Engineering (B.Eng.) - Minor Applied Artificial Intelligence (22-25 credits) (25 credits)

The B.Eng.; Minor in Applied Artificial Intelligence, open to all engineering students, is designed to provide the foundation for applications of AI techniques in various fields of interest.

Students must complete 7 courses as follows. Up to three courses can be double counted with the major.

Complementary Courses (22-25)

Group A

3 credits from the following:

COMP 250*	(3)	Introduction to Computer Science
ECSE 250*	(3)	Fundamentals of Software Development

* COMP 250 and ECSE 250 cannot both be taken.

Group B

4 credits from the following:

COMP 551*	(4)	Applied Machine Learning
ECSE 551*	(4)	Machine Learning for Engineers

* ECSE 551 and COMP 551 cannot both be taken

Group C

3 credits from the following:

ECSE 343	(3)	Numerical Methods in Engineering
MATH 223	(3)	Linear Algebra
MATH 247	(3)	Honours Applied Linear Algebra
MATH 271	(3)	Linear Algebra and Partial Differential Equations

Group D

3 credits from the following:

AEMA 310	(3)	Statistical Methods 1
CIVE 302	(3)	Probabilistic Systems
ECSE 205	(3)	Probability and Statistics for Engineers
MATH 203	(3)	Principles of Statistics 1
MATH 323	(3)	Probability
MECH 262	(3)	Statistics and Measurement Laboratory
MIME 209	(3)	Mathematical Applications

Group E

9-12 credits from the following:

COMP 417	(3)	Introduction Robotics and Intelligent Systems
COMP 424***	(3)	Artificial Intelligence
COMP 445	(3)	Computational Linguistics
COMP 550	(3)	Natural Language Processing
COMP 579	(4)	Reinforcement Learning
ECSE 415	(3)	Introduction to Computer Vision
ECSE 446	(3)	Realistic Image Synthesis
ECSE 507	(3)	Optimization and Optimal Control
ECSE 526***	(3)	Artificial Intelligence
ECSE 544	(4)	Computational Photography
ECSE 552	(4)	Deep Learning
ECSE 554	(4)	Applied Robotics
ECSE 557	(3)	Introduction to Ethics of Intelligent Systems
MECH 559	(3)	Engineering Systems Optimization

*** COMP 424 and ECSE 526 cannot both be taken.

Or any 400 or 500 level special topics courses in the area of artificial intelligence with the approval of the Electrical and Computer Engineering department.

6.12.10.3 Bachelor of Engineering (B.Eng.) - Minor Arts (24 credits)

Minor Adviser: Faculty Student Adviser in the Engineering Student Centre (Frank Dawson Adams Building, Room 22)

B.Sc.(Arch.), and B.Eng., students may obtain the Arts Minor as part of their B.Eng., or B.Sc.(Arch.) degree by completing 24 credits, as described below.

Students must select courses for 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.

6.12.10.4 Bachelor of Engineering (B.Eng.) - Minor Biomedical Engineering (21 credits)

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:

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
BIEN 219**	(4)	Introduction to Physical Molecular and Cell Biology
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 219**	(4)	Introduction to Physical Molecular and Cell Biology
CHEM 212***	(4)	Introductory Organic Chemistry 1
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

* Students can choose one of ANAT 212, BIOC 212 or BIOL 201.

** Students can choose one of ANAT 212, BIEN 219, BIOC 212, BIOL 200, BIOL 201 or BIOL 219.

*** Cannot be taken by Chemical Engineering students.

Specialization Courses

Minimum of 12 credits from courses below:

Students must select 6 credits from courses outside their department and at least one BMDE course. BMDE courses are best taken near the end of the program, when prerequisites are satisfied.

Physiological Systems, Artificial Cells and Organs

BIEN 340	(3)	Transport Phenomena in Biological Systems 2
BIEN 360	(3)	Physical Chemistry in Bioengineering
BIEN 462	(3)	Engineering Principles in Physiological Systems

BIEN 540	(3)	Information Storage and Processing in Biological Systems
BMDE 505	(3)	Cell and Tissue Engineering
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 518	(3)	Artificial Cells

Bioinformatics, Genomics and Proteomics

ANAT 365	(3)	Cellular Trafficking
ANAT 458*	(3)	Membranes and Cellular Signaling
BIEN 310	(3)	Introduction to Biomolecular Engineering
BIEN 410	(3)	Computational Methods in Biomolecular Engineering
BIEN 420	(3)	Biodevices Design for Diagnostics and Screening
BIEN 540	(3)	Information Storage and Processing in Biological Systems
BIEN 590	(3)	Cell Culture Engineering
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 458*	(3)	Membranes and Cellular Signaling
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering
COMP 424	(3)	Artificial Intelligence
COMP 462	(3)	Computational Biology Methods

* Students select either ANAT 458 or BIOC 458.

Biomaterials, Biosensors and Nanotechnology

BIEN 330	(3)	Tissue Engineering and Regenerative Medicine
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIEN 550	(3)	Biomolecular Devices
BIEN 560	(3)	Design of Biosensors
BMDE 504	(3)	Biomaterials and Bioperformance
BMDE 505	(3)	Cell and Tissue Engineering
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering
CHEE 380	(3)	Materials Science
ECSE 424	(3)	Human-Computer Interaction
MECH 553	(3)	Design and Manufacture of Microdevices
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties
MIME 470	(3)	Engineering Biomaterials
PHYS 534	(3)	Nanoscience and Nanotechnology

Biomechanics and Prosthetics

BIEN 320	(3)	Molecular, Cellular and Tissue Biomechanics
BIEN 570	(3)	Active Mechanics in Biology

BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
CHEE 563*	(3)	Biofluids and Cardiovascular Mechanics
MECH 315	(4)	Mechanics 3
MECH 321	(3)	Mechanics of Deformable Solids
MECH 530	(3)	Mechanics of Composite Materials
MECH 561	(3)	Biomechanics of Musculoskeletal Systems
MECH 563*	(3)	Biofluids and Cardiovascular Mechanics
MIME 360	(3)	Phase Transformations: Solids
MIME 362	(3)	Mechanical Properties

* Students choose either CHEE 563 or MECH 563.

Medical Physics and Imaging

BIEN 350*	(4)	Biosignals, Systems and Control
BIEN 530	(3)	Imaging and Bioanalytical Instrumentation
BMDE 512	(3)	Finite-Element Modelling in Biomedical Engineering
BMDE 519	(3)	Biomedical Signals and Systems
COMP 424	(3)	Artificial Intelligence
COMP 558	(4)	Fundamentals of Computer Vision
ECSE 206*	(3)	Introduction to Signals and Systems
ECSE 412	(3)	Discrete Time Signal Processing
PHYS 557	(3)	Nuclear Physics

* Students choose either BIEN 350 or ECSE 206.

Neural Systems and Biosignal Processing

BIEN 350*	(4)	Biosignals, Systems and Control
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.

6.12.10.5 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 Adams Building, Room 22). For advising regarding Science courses, contact Nancy Nelson, Undergraduate Adviser, Department of Biology, Faculty of Science.

This Minor is offered by the Faculty of Engineering and the Faculty of Science for students who wish to take biotechnology courses that are complementary to their area. It has been designed specifically for Chemical Engineering students; other Engineering students who are interested in the Minor should contact a Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

To obtain the Biotechnology Minor, students must complete 24 credits, 18 of which must be exclusively for the Minor. Approved substitutions must be made for any of the required courses that are part of the student's major program.

The Department of Chemical Engineering permits students taking this Minor to complete BIOT 505 (Selected Topics in Biotechnology) as one of their technical complementary courses. Chemical Engineering students complete 15 credits beyond their 141-credit (115-credit for CEGEP students) B.Eng. program to obtain this Minor.

Required Courses

12 credits

BIOT 505	(3)	Selected Topics in Biotechnology
CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 474	(3)	Biochemical Engineering

OR

Alternative Required Courses (for Chemical Engineering students)

A Chemical Engineering student may complete the Biotechnology Minor by taking the courses below plus one course from the list of complementary courses, not including FACC 300.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOT 505	(3)	Selected Topics in Biotechnology
MIMM 211	(3)	Introductory Microbiology

Complementary Courses

12 credits selected from courses outside the Department of the student's major program and/or from the lists below. If courses are chosen from the lists below, at least three courses must be taken from one area of concentration as grouped.

Biomedicine

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)	Biochemistry of Immune Diseases
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 414	(3)	Advanced Immunology
PHGY 513	(3)	Translational Immunology

Management

Note: Engineering students may not use these courses to count toward a Management minor, nor toward the Complementary Studies requirement.

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 Cancer
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 551	(3)	Principles of Cellular Control

Molecular Biology (Biochemistry)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
PSYT 455	(3)	Neurochemistry

Physiology

EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHGY 518	(3)	Artificial Cells

Pollution

Note: Engineering students may not use these courses to count toward the Environmental Engineering Minor.

CIVE 225	(4)	Environmental Engineering
CIVE 430	(3)	Water Treatment and Pollution Control

CIVE 557 (3) Microbiology for Environmental Engineering

6.12.10.6 Bachelor of Engineering (B.Eng.) - Minor Chemistry (25 credits)

Minor Adviser (program coordinator): Dr. Samuel Sewall (Director of Undergraduate Studies, Chemistry)

Program credit weight: 25 credits

A passing grade for courses in the Minor is a C.

Required Courses

10 credits

CHEE 310*	(3)	Physical Chemistry for Engineers
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 233*	(3)	Topics in Physical Chemistry
CHEM 234**	(3)	Topics in Organic Chemistry

* Students choose either CHEM 233 or CHEE 310

** or CEGEP equivalent

Complementary Courses

15 credits from the following lists, two courses of which must be laboratory courses (* indicates lab).

Note that CHEM 212 is a prerequisite for most of the courses listed below, and CHEM 213 (Introductory Physical Chemistry 1) and CHEM 273 (Introductory Physical Chemistry 2) or their equivalents are prerequisites for the Physical Chemistry courses. If students take CHEM 222 (Introductory Organic Chemistry 2), which includes a lab, instead of CHEM 234, they will receive credit for one of the two required laboratory courses, but they must complete a total of 25 credits in chemistry for the Minor.

Inorganic Chemistry

CHEM 281	(3)	Inorganic Chemistry 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 591	(3)	Bioinorganic Chemistry

Analytical Chemistry

CHEM 267	(3)	Introductory Chemical Analysis
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2

Organic Chemistry

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362*	(2)	Advanced Organic Chemistry Laboratory
CHEM 482	(3)	Organic Chemistry: Natural Products

Physical Chemistry

CHEM 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 493*	(2)	Advanced Physical Chemistry Laboratory
CHEM 574	(3)	Introductory Polymer Chemistry

6.12.10.7 Computer Science Courses and Minor Program

The School of Computer Science offers an extensive range of courses for students in the Faculty of Engineering who are interested in computers. Students in the Faculty of Engineering may obtain a **Computer Science Minor** by completing 24 credits of courses, passed with a grade of C or better.

Students interested in this Minor should contact:

Liette Chin
 Undergraduate Program Coordinator
 School of Computer Science
 McConnell Engineering Building, Room 320
 Telephone: 514-398-7071, ext. 00118
 Email: liette.chin@mcgill.ca

and the Minor Adviser in the *School of Computer Science*.

6.12.10.7.1 Computer Science Courses in Engineering Programs

The School of Computer Science offers an extensive range of courses for students in the Faculty of Engineering who are interested in computers. The course taken by students in most B.Eng. programs (COMP 208) and other courses included in the core of the various B.Eng. programs are listed below.

Search [All Courses](#) for other courses offered by the School of Computer Sciences (subject code COMP).

Computer Science Courses in Engineering Programs

COMP 206	(3)	Introduction to Software Systems
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 360	(3)	Algorithm Design
COMP 421	(3)	Database Systems

6.12.10.7.2 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:

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

3 credits from the following:

COMP 273	(3)	Introduction to Computer Systems
ECSE 222*	(3)	Digital Logic

3-4 credits from the following:

CHEE 390	(3)	Computational Methods in Chemical Engineering
CIVE 320	(4)	Numerical Methods
COMP 350	(3)	Numerical Computing
ECSE 343	(3)	Numerical Methods in Engineering
MATH 317	(3)	Numerical Analysis
MECH 309	(3)	Numerical Methods in Mechanical Engineering

9 credits from:

COMP 251	(3)	Algorithms and Data Structures
MATH 240	(3)	Discrete Structures

COMP courses at the 300 level or above except COMP 396, COMP 400.

It is strongly recommended that students take COMP 251, as it is a prerequisite of many later computer science courses.

* Students who have taken ECSE 221 may use it instead of ECSE 222 or COMP 273.

6.12.10.8 Bachelor of Engineering (B.Eng.) - Minor Construction Engineering and Management (24 credits)

This Minor covers construction project management, law related to construction, labour-management relations, financial accounting and project finance, in addition to topics in other construction-related fields, architecture or mining engineering.

All courses in the Minor must be passed with a grade of C or better.

A maximum of 12 credits of coursework in the student's major may double-count with the Minor.

Minor Adviser: Prof. L. Chouinard, Macdonald Engineering Building, Room 491 (Telephone: 514-398-6446)

Minor program credit weight: 24 credits

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
INDR 294	(3)	Introduction to Labour-Management Relations
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341	(3)	Introduction to Finance

Complementary Courses (9 credits)

3 credits from List A

6 credits from List B

List A:

ARCH 447	(3)	Energy, Environment, and Buildings 2
ARCH 451	(3)	Building Regulations and Safety
MIME 322	(3)	Rock Fragmentation
MIME 333	(3)	Materials Handling

List B:

CIVE 446	(3)	Construction Engineering
CIVE 527	(3)	Renovation and Preservation: Infrastructure
ECSE 461	(3)	Electric Machinery
FINE 445	(3)	Real Estate Finance
MIME 520	(3)	Stability of Rock Slopes
MIME 521	(3)	Stability of Underground Openings
MPMC 321*	(3)	Mécanique des roches et contrôle des terrains

*Course offered in French at École Polytechnique in Montreal

6.12.10.9 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 and Institutions
ECON 305	(3)	Industrial Organization
ECON 306	(3)	Labour Markets and Wages
ECON 308	(3)	Governmental Policy Towards Business
ECON 313	(3)	Economic Development 1

ECON 314	(3)	Economic Development 2
ECON 316	(3)	The Underground Economy
ECON 326	(3)	Ecological Economics
ECON 330D1	(3)	Macroeconomic Theory
ECON 330D2	(3)	Macroeconomic Theory
ECON 335	(3)	The Japanese Economy
ECON 336	(3)	The Chinese Economy
ECON 337	(3)	Introductory Econometrics 1
ECON 344	(3)	Industrial Revolution and Economic Development
ECON 345	(3)	The International Economy since 1914
ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ECON 406	(3)	Topics in Economic Policy
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 411	(3)	Economic Development: A World Area
ECON 416	(3)	Topics in 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.

6.12.10.10 Minor in Environment

Environmental studies focus on the interactions between humans and their natural and technological environments. Environmental problems are complex, and their satisfactory solutions require the synthesis of social, scientific, and institutional knowledge.

The Minor in Environment is offered and administered by the Bieler School of Environment.

Since the program comprises a total of 18 credits for the Minor, additional credits beyond those needed for the B.Eng. degree are required. Students wishing to complete the Minor should prepare a program and have it approved by both their regular Engineering departmental adviser and the Minor program adviser. For program details, see [Bieler 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 Authorisation 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
Bieler School of Environment Program Adviser
Telephone: 514-398-4306
Email: kathy.roulet@mcgill.ca

6.12.10.11 Bachelor of Engineering (B.Eng.) - Minor Environmental Engineering (21 credits)

Minor Adviser: Prof. S. Ghoshal, Prof. D. Frigon Macdonald Engineering Building, Room 569C

Minor program credit weight: 21-22 credits

The Environmental Engineering Minor is administered by the Department of Civil Engineering and is offered for all students in Engineering and in the Department of Bioresource Engineering wishing to pursue studies in this area.

A maximum of 12 credits of coursework in the student's major may double-count with the Minor.

To complete the Minor in Environmental Engineering, students must obtain a grade of C or better in all approved courses in the Minor, and satisfy the requirements of both the Minor and their major program.

Note: Not all courses listed are offered every year. Students should see the "Courses" section of this eCalendar to know if a course is offered.

Complementary Courses

21-22 credits

18 credits from Stream A, B, or C below

and

One course (3-4 credits) from the following list:

BREE 327	(3)	Bio-Environmental Engineering
CIVE 225	(4)	Environmental Engineering

Stream A

15 credits* from the Engineering Course List and 3 credits from the Non-Engineering Course List below

* 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).

Stream B

15 credits of courses that make up the "Barbados Field Study Semester" below, provided the project for CIVE/AGRI/URBP 519 Sustainable Development Plans has sufficient environmental engineering content (project requires approval of the Coordinator of the Minor);

AND

One course (3-4 credits) chosen from the Engineering Course List below, excluding CHEE 496.

Barbados Field Study Courses

Required Courses

6 credits

URBP 507	(3)	Planning and Infrastructure
URBP 520	(3)	Globalization: Planning and Change

Complementary Courses

9 credits

One of the following cross-listed courses (3 credits):

AGRI 452	(3)	Water Resources in Barbados
CIVE 452	(3)	Water Resources in Barbados

AND

One of the following cross-listed project courses (6 credits):

AGRI 519	(6)	Sustainable Development Plans
CIVE 519	(6)	Sustainable Development Plans
URBP 519	(6)	Sustainable Development Plans

Stream C

9 credits of courses specified from the "Barbados Interdisciplinary Tropical Studies (BITS)" field semester below, provided the project has sufficient environmental engineering content (project requires approval of the Coordinator of the Minor):

AEBI 425	(3)	Tropical Energy and Food
AEBI 427	(6)	Barbados Interdisciplinary Project

AND

9 credits chosen from the Engineering Course List below, excluding CHEE 496.

Engineering Course List

Courses offered at the Macdonald campus:

BREE 217*	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 416	(3)	Engineering for Land Development
BREE 518	(3)	Ecological Engineering

* Not open to students who have passed CIVE 323.

Courses offered at the Downtown campus:

ARCH 377	(3)	Energy, Environment, and Buildings 1
ARCH 515	(3)	Sustainable Design
CHEE 351	(3)	Separation Processes
CHEE 370	(3)	Elements of Biotechnology
CHEE 496	(3)	Environmental Research Project
CHEE 591	(3)	Environmental Bioremediation
CHEE 592	(3)	Industrial Air Pollution Control
CHEE 593	(3)	Industrial Water Pollution Control
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 421	(3)	Municipal Systems
CIVE 428	(3)	Water Resources and Hydraulic Engineering
CIVE 430	(3)	Water Treatment and Pollution Control
CIVE 451	(3)	Geoenvironmental Engineering
CIVE 550	(3)	Water Resources Management
CIVE 555	(3)	Environmental Data Analysis
CIVE 557	(3)	Microbiology for Environmental Engineering
CIVE 572	(3)	Computational Hydraulics
CIVE 573	(3)	Hydraulic Structures
CIVE 574	(3)	Fluid Mechanics of Water Pollution
CIVE 577	(3)	River Engineering
CIVE 584	(3)	Mechanics of Groundwater Flow
MECH 447	(3)	Combustion
MECH 534	(3)	Air Pollution Engineering
MECH 535	(3)	Turbomachinery and Propulsion
MIME 422	(3)	Mine Ventilation
MIME 512	(3)	Corrosion and Degradation of Materials

MPMC 328	(3)	Environnement et gestion des rejets miniers
URBP 506	(3)	Environmental Policy and Planning

** Not open to students who have passed BREE 217.

Non-Engineering Course List

Courses offered at the Macdonald campus:

LSCI 230+	(3)	Introductory Microbiology
MICR 331+	(3)	Microbial Ecology
MICR 341	(3)	Mechanisms of Pathogenicity
RELG 270	(3)	Religious Ethics and the Environment
SOIL 331	(3)	Environmental Soil Physics
WILD 375	(3)	Issues: Environmental Sciences
WOOD 420	(3)	Environmental Issues: Forestry

+ Not open to students who have passed CHEE 370.

Courses offered at the Downtown campus:

ANTH 206	(3)	Environment and Culture
BIOL 205	(3)	Functional Biology of Plants and Animals
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)	Remote Sensing for Earth Observation
GEOG 321	(3)	Climatic Environments
GEOG 404	(3)	Environmental Management 2
MIMM 211	(3)	Introductory Microbiology

6.12.10.12 Minor Programs in Finance, Management, Marketing, and Operations Management

Prerequisite: None

Minors for Non-Management Students: Students considering one of these Minor programs should consult a Faculty Student Adviser in the [McGill Engineering Student Centre](#) (Student Affairs Office; Frank Dawson Adams Building, Room 22) before applying to the Desautels Faculty of Management.

Many engineers begin to assume management functions within a few years of graduation. They can, at this stage, take up the study of economics, behavioural science, and other management subjects. Students wishing to include such studies in their undergraduate program can take suitable courses from Engineering and Management.

Each Minor comprises 18 credits of courses available from the core program of the Desautels Faculty of Management (subject to timetable requirements). Some courses from the Management core program have considerable overlap with Engineering courses and thus are not available to Engineering students.

Students embarking on a minor must be prepared to take credits additional to their Engineering program. Students in a B.Eng. program may be able to count up to 6 credits of Complementary Studies Group B courses (Humanities and Social Sciences, Management Studies, and Law courses) toward both their

Engineering major program and a Management minor where applicable. More information about Complementary Studies is given in each individual academic program listing for the B.Eng. degree (see [section 6.12: Browse Academic Units & Programs](#)).

Admission requirements for the Management Minors change annually. Please consult the [Desautels Faculty of Management website](#) for more details.

Students planning to take any course with statistics as a prerequisite must have completed MGCR 271 (Business Statistics) or an equivalent course approved by the BCom Student Affairs Office.

Application and Program Requirements

Detailed information on the following Minor programs can be found in [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > 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 atmcgill.ca/engineering/students/undergraduate/advising-programs/minor-programs.

6.12.10.13 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

6.12.10.14 Bachelor of Engineering (B.Eng.) - Minor Mathematics (18 credits)

The B.Eng.; Minor in Mathematics provides students with an even stronger foundation in mathematics to further develop their knowledge of this subject. Students enrolled in the B.Eng.; Minor in Mathematics complete a series of mathematics courses offered by the Department of Mathematics and Statistics, or other units offering mathematics courses.

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22) AND an adviser designated by the Department of Mathematics and Statistics. (Please consult the Department of Mathematics and Statistics for the name of this adviser.) Selection of courses must be undertaken in conjunction with the Minor Advisers, normally beginning in the U2 year.

Note: The B.Eng.; Minor in Mathematics is open to all students in the Faculty of Engineering (including students registered in the B.Sc.(Arch.)). A maximum of 9 credits of overlap (double-counting) with the degree program is allowed.

Engineering students must obtain a grade of C or better in courses approved for this Minor.

Required Course (3 credits)

MATH 242 (3) Analysis 1

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) Partial Differential Equations
 MATH 323* (3) Probability
 MATH 324* (3) Statistics
 MATH 326 (3) Nonlinear Dynamics and Chaos
 MATH 340 (3) Discrete Mathematics
 MATH 378 (3) Nonlinear Optimization
 MATH 417 (3) Linear Optimization
 MATH 427 (3) Statistical Quality Control
 MATH 447 (3) Introduction to Stochastic Processes
 MATH 463 (0)
 MATH 475 (3) Honours Partial Differential Equations
 MATH 478 (3) Computational Methods in Applied Mathematics
 MATH 563 (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.

6.12.10.15 Bachelor of Engineering (B.Eng.) - Minor Mining Engineering (23 credits)

Minor Adviser: Prof. Mustafa Kumral (Minor Coordinator)

Frank Dawson Adams Building, Room 119

Program credit weight: 23 credits

One of the required courses is a work term for which enrolment may be limited.

Required Courses

14 credits

MIME 200	(3)	Introduction to the Minerals Industry
MIME 291	(2)	Industrial Work Period 2
MIME 322	(3)	Rock Fragmentation
MIME 325	(3)	Mineral Industry Economics
MIME 333	(3)	Materials Handling

Complementary Courses

9 credits

List A: Mining Engineering

3-9 credits from the following:

MIME 320	(3)	Extraction of Energy Resources
MIME 323	(3)	Rock and Soil Mass Characterization
MIME 341	(3)	Introduction to Mineral Processing
MIME 419	(3)	Surface Mining
MIME 422	(3)	Mine Ventilation
MIME 520	(3)	Stability of Rock Slopes
MIME 521	(3)	Stability of Underground Openings
MIME 526	(3)	Mineral Economics
MIME 588	(3)	Reliability Analysis of Mining Systems

List B: Mechanical Engineering

0-6 credits from the following:

MECH 497	(3)	Value Engineering
MECH 572	(3)	Mechanics and Control of Robotic Manipulators
MECH 573	(3)	Mechanics of Robotic Systems

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
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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
ECSE 436	(3)	Signal Processing Hardware
ECSE 451	(3)	EM Transmission and Radiation
ECSE 464	(3)	Power Systems Analysis

6.12.10.16 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 mcgill.ca/music/programs/minor/mst and must be submitted by the application deadline.

For further information about this Minor, please contact:

Department of Music Research
 Email: research.music@mcgill.ca
 Website: mcgill.ca/music/programs/minor/mst

6.12.10.17 Bachelor of Engineering (B.Eng.) - Minor Nanotechnology (21 credits)

Through courses already offered in the Faculties of Science, Engineering, and Medicine and Health Sciences, depending on the courses completed, undergraduate students will acquire knowledge in some of the following areas related to nanotechnology:

- Nanomaterial synthesis and processing approaches
- Physicochemistry and quantum behavior of nanomaterials
- State-of-the-art techniques for nanomaterial characterization and detection
- Applications of nanomaterials in engineered solutions
- Nanomaterials in medicine and pharmacology
- Nanomaterials in electronics and energy
- Environmental, health, and social impacts of nanomaterials

Minor program credit weight: 21-22 credits

Students must complete 21 credits of courses as indicated below. A maximum of 12 credits of courses in the student's major may double-count with the Minor.

Students who have not taken the listed prerequisites for any of these courses should ensure that they have the adequate background and/or meet with the instructor before registering for the course. Permission from the instructor and/or department may be required.

The program is open to undergraduate students that are in Year 2 or higher.

Complementary Courses (21-22 credits)

Group A

Students must complete a minimum of 3 credits from the following list of courses:

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BMDE 508	(3)	Introduction to Micro and Nano-Bioengineering

CHEE 521*	(3)	Nanomaterials and the Aquatic Environment
CHEM 534*	(3)	Nanoscience and Nanotechnology
CIVE 521*	(3)	Nanomaterials and the Aquatic Environment
ECSE 535**	(3)	Nanoelectronic Devices
MIME 570	(3)	Micro- and Nano-Fabrication Fundamentals
PHYS 534*	(3)	Nanoscience and Nanotechnology

Group B

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 420	(3)	Biodevices Design for Diagnostics and Screening
BIEN 550	(3)	Biomolecular Devices

Chemical Engineering

CHEE 380*	(3)	Materials Science
CHEE 515*	(3)	Interface Design: Biomimetic Approach
CHEE 543	(3)	Plasma Engineering
CHEE 582	(3)	Polymer Science and 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

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
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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)	(Bio)material Surface Analysis and Modification
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 346	(3)	Majors Quantum Physics
PHYS 558	(3)	Solid State Physics

* Students can take only one course from each set of the following courses:

- MIME 260, MIME 261, MIME 262 or CHEE 380
- CHEE 515 or MIME 515
- CHEE 521 or CIVE 521
- CHEM 534 or PHYS 534
- BIOL 319 or PHYS 319

^ A research-based course (maximum 4cr) with the focus on nanotechnology taken at McGill University may be considered for credits towards this Minor; students must obtain the approval of the research project from the Minor adviser prior to taking the course in order for the course to be counted as part of the Minor credits.

** A 3.0 or higher CGPA is required in order to take these courses.

*** When topic is appropriate, with approval from the Minor Adviser.

6.12.10.18 Bachelor of Engineering (B.Eng.) - Minor Physics (18 credits)

This Minor is restricted to students in Honours Engineering programs (Honours Electrical Engineering and Honours Mechanical Engineering). Students take 9 credits of required courses in thermal physics and honours quantum physics and choose three other Physics courses (subject code PHYS).

Minor Adviser: Head Adviser, Department of Physics, undergraduate.advisor@physics.mcgill.ca. For names and other contact information, see <http://www.physics.mcgill.ca/ugrads/advshed.html>.

Required Courses

9 credits

PHYS 253	(3)	Thermal Physics
PHYS 357	(3)	Honours Quantum Physics 1

PHYS 457 (3) Honours Quantum Physics 2

Complementary Courses (9 credits)

9 credits from the following:

PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 362	(3)	Statistical Mechanics
PHYS 432	(3)	Physics of Fluids
PHYS 514	(3)	General Relativity
PHYS 551	(3)	Quantum Theory
PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics

6.12.10.19 Bachelor of Engineering (B.Eng.) - Minor Software Engineering (18 credits)

The Software Engineering Minor provides a foundation in basic computer science, computer programming, and software engineering practice.

The Minor program does not carry professional recognition.

Students must complete 18 credits (six courses) as follows. Up to 6 credits (two courses) may be double-counted towards a degree program.

Required Courses (9 credits)

ECSE 223	(3)	Model-Based Programming
ECSE 321	(3)	Introduction to Software Engineering
ECSE 428	(3)	Software Engineering Practice

Complementary Courses

3 credits from the following:

COMP 250*	(3)	Introduction to Computer Science
ECSE 250*	(3)	Fundamentals of Software Development

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 437	(3)	Software Delivery
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 250 and ECSE 250
- COMP 424 and ECSE 526
- ECSE 439 and ECSE 539
- ECSE 446 and ECSE 546

+ Restricted to Honours students or Computer Engineering or

Electrical Engineering students with CGPA of at least 3.0 and B+ or better in prerequisites

6.12.10.20 Bachelor of Engineering (B.Eng.) - Minor Technological Entrepreneurship (18 credits)

Minor Adviser: Faculty Student Adviser in the McGill Engineering Student Centre (Student Affairs Office) (Frank Dawson Adams Building, Room 22).

This Minor is a collaboration of the Faculty of Engineering and Desautels Faculty of Management and is designed to provide Engineering (B.Eng. and B.Sc. (Arch.)) students with an understanding of how to conceptualize, develop, and manage successful new ventures – including for-profit private companies, social enterprises, and cooperatives as well as intrapreneurship initiatives. The program covers the essentials of management and is multidisciplinary and integrative. Many courses in the Minor will address a mix of students from across multiple McGill faculties.

B.Eng. students may double-count up to two courses (6 credits) of Complementary Studies (Group B., Humanities, and Social Science courses) toward the Minor. B.Eng. Mechanical Engineering students may double-count up to 6 credits of Complementary Studies Group B courses and/or Elective courses (for Mechanical Engineering students from a CEGEP background) toward the Minor.

This Minor is restricted to students in 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:

FACC 501	(3)	Technology Business Plan Project
MGPO 364	(3)	Entrepreneurship in Practice

0-3 credits from the following:

BUSA 465	(3)	Technological Entrepreneurship
LAWG 570	(3)	Innovation for Non-Law Students
MGPO 438	(3)	Social Entrepreneurship and Innovation
ORGB 321	(3)	Leadership

7 Bieler School of Environment

7.1 About the Bieler School of Environment

McGill's Faculties of Agricultural and Environmental Sciences, Arts, and Science have forged a unique approach to the study of environment through the interfaculty, trans-disciplinary Bieler School of Environment. The growth of technology, globalising economies, and rapid increases in population have had dramatic and significant environmental impacts. These changes have been accompanied by an increasing awareness of the relationship between human activity and the environment. Environmental problems range from local and short-term degradation through to perturbations observed over the entire globe over the span of many years. The importance of human-environment relations for environmental and social well-being, and the complexity and conflict involved in environmental analysis and decision making, requires a depth and breadth of knowledge. The Bieler School of Environment has developed its programs with the approach of introducing students to a broad range of ideas early in the program to provide a foundation and an openness upon which more specialized, disciplinary knowledge can be built.

7.2 Mission of the School

The mission of the Bieler School of Environment is:

- to provide a program that 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 School 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 Bieler School of Environment focuses on four themes:

- Health in a Changing Environment
- Ecosystems, Biodiversity, and Conservation
- Citizens, Communities, Institutions, and the Environment
- Rethinking Social-Ecological Relationships

7.3 About the School (Undergraduate)

Previously known as the McGill School of Environment, the School was renamed in 2020, in recognition of a generous gift to McGill to further the interdisciplinary teaching, research, and experiential learning capacity for students in the School. For those wishing to pursue a career in environment, the Bieler School of Environment aims to stimulate a passion for life-long learning, confidence in questioning established norms, ingenuity and openness to new ideas, and the ability to communicate and contribute effectively in all situations. We believe that these goals are best achieved through opportunities to witness, experience, and participate in diverse academic approaches. We also believe that major research achievements emerge out of a dynamic, interactive community where dialogue occurs among engaged students, staff, and faculty from all disciplines. To these ends, we strive to achieve a fully integrated, transdisciplinary understanding of problems and solutions to the many and interdependent environmental crises in a manner that bridges the social sciences and humanities with the natural and applied sciences.

The people and the programs of the Bieler School of Environment are described in the following sections.

7.3.1 Location

For advising, contact:

Program Adviser, Ms. Kathy Roulet
Telephone: 514-398-4306
Fax: 514-398-1643
Email: kathy.roulet@mcgill.ca
Website: mcgill.ca/environment

Downtown Campus

3534 University Street
 Montreal, Quebec H3A 2A7
 Telephone: 514-398-2827
 Fax: 514-398-1643

Macdonald Campus

Rowles House
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue, Quebec H9X 3V9
 Telephone: 514-398-7559
 Fax: 514-398-7846

7.3.2 Administrative Officers

Administrative Officers

Anja Geitmann	Dean, Faculty of Agricultural and Environmental Sciences
Antonia Maioni	Dean, Faculty of Arts
R. Bruce Lennox	Dean, Faculty of Science
Frederic Fabry	Director
Sylvie de Blois	Chair, Graduate Affairs
Julia Freeman	Chair, Undergraduate Affairs
Kathryn Roulet	Program Adviser

7.3.3 Environment Faculty

Director

Frédéric Fabry

Professors

Elena Bennett; Peter G. Brown; Iwao Hirose; Anthony Ricciardi.

Associate Professors

Madhav Badami; Christopher Barrington-Leigh; Jeffrey Cardille; Sylvie de Blois; Frédéric Fabry; Nicolas Kosoy; Brian Leung; Kevin Manaugh; Raja Sengupta; Renée Sieber; Ismael Vaccaro.

Assistant Professor

Fiona Soper

Faculty Lecturers

Julia Freeman, Kathryn Roulet.

Associate Members

Anthropology: John Galaty

Architecture, School of: Nik Luka

Atmospheric and Oceanic Sciences: Parisa Ariya

Biology: Lauren Chapman, Andrew Gonzalez, Catherine Potvin

Bioresource Engineering: Jan Adamowski, Grant Clark, Mark Lefsrud, Chandra Madramootoo

Chemical Engineering: Nathalie Tufenkji, Viviane Yargeau

Chemistry: Christopher Barrett

Civil Engineering: Susan Gaskin, Van-Thanh-Van Nguyen, Jim Nicell

Earth and Planetary Sciences: Nagissa Mahmoudi

Associate Members

Economics: Chris Green, Tom Naylor

Electrical and Computer Engineering: Geza Joos

Epidemiology, Biostatistics, and Occupational Health: Jonathan Chevrier, Mark Goldberg

Food Science and Agricultural Chemistry: Saji George

Geography: Graham MacDonald, Thom Meredith, Tim Moore, Wayne H. Pollard, Brian Robinson, Nigel Roulet

History and Classical Studies: Daviken Studnicki-Gizbert

Human Nutrition, School of: Niladri Basu

Integrated Studies in Education: Blane Harvey

Languages, Literatures, and Cultures: Stephanie Posthumus

Law, Faculty of: Richard Gold, Richard Janda, Sebastien Jodoin

Management, Desautels Faculty of: Dror Etzion

Natural Resource Sciences: Christopher Buddle, Benoît Côté, Brian Driscoll, Gordon Hickey, Cynthia Kallenbach, Ian Strachan, Paul Thomassin

Parasitology, Institute of: Marilyn Scott

Plant Science: Caroline Begg, Pierre Dutilleul, Jaswinder Singh, Don Smith

Redpath Museum: David M. Green

Urban Planning, School of: Nik Luka

Adjunct Professor

Katia Opalka

7.4 Admission, Registration, and Regulations

Information concerning admission to the Bieler School of Environment and the regulations concerning the Environment programs is provided in these sections:

Admission, Registration, and Regulations

[section 7.4.1: Admission](#)

[section 7.4.2: Degree Requirements](#)

[section 7.4.3: Advising in the BSE](#)

[section 7.4.4: Important Information about Program Selection](#)

[section 7.4.5: Examination Regulations](#)

[section 7.4.6: Courses Outside the Student's Faculty](#)

7.4.1 Admission

You may be admitted to a B.A., B.A. & Sc., B.Sc.(Ag.Env.Sc.), or B.Sc. program offered by the Bieler School of Environment on the University's two campuses: the Macdonald campus (B.Sc.(Ag.Env.Sc.) program) and the Downtown campus (B.A., B.A.&Sc., and B.Sc. programs). You register as a student within your faculty of admission and are governed by all rules and regulations of your faculty.

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 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.** degree, you must fulfil all the faculty and program requirements as indicated in [Bachelor of Arts and Science > Undergraduate > section 4.5: Degree Requirements](#).

To be eligible for a **B.Sc.(Ag.Env.Sc.)** degree, you must fulfil all the faculty and program requirements as indicated in [Faculty of Agricultural and Environmental Sciences > Undergraduate > About the Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition \(Undergraduate\) > Faculty Information and Regulations > section 2.4.6.14: Degree Requirements](#).

To be eligible for a **B.Sc.** degree, you must fulfil all the faculty and program requirements as indicated in [Faculty of Science > Undergraduate > section 11.6: Faculty Degree Requirements](#).

To be eligible for the **Diploma in Environment**, you must fulfil all program requirements as specified in [section 7.7.8: Diploma in Environment](#).

To be eligible for an **Honours** degree, you must fulfil all the faculty and program requirements as indicated in the *Honours and First Class Honours* section under your home faculty. In addition, you must fulfil the honours program requirements outlined in [section 7.7.6: Honours Program in Environment](#).

To be eligible for a **Joint Honours** degree, you must fulfil all the faculty and program requirements as indicated by the Faculty of Arts 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 \(including B.A. & Sc.\)](#). In addition, you must fulfil the honours program requirements outlined in [section 7.7.7.1: Bachelor of Arts \(B.A.\) - Joint Honours Component Environment \(36 credits\)](#).

7.4.3 Advising in the BSE

Each Domain in the Bieler School of Environment has its own mentor who is available to answer your questions and offer you guidance about working and learning within the particular field of the Domain. However, if you have questions about program requirements or rules, transfer credits, study abroad programs, course substitutions, or any forms that need to be signed, you should contact the Program Adviser, Kathy Roulet, at kathy.roulet@mcgill.ca.

7.4.4 Important Information about Program Selection

If you are unsure of the Domain that you want to pursue in U1, you may register in the **Major or Faculty Program in Environment** without picking a Domain. However, you must pick a Domain by your U2 year.



Note: You must select a Domain in order to graduate.

(This section does not apply to students in the B.A. & Sc., Minor, or Diploma programs.)

7.4.5 Examination Regulations

Regulations concerning the method of evaluation of any course (including those governing supplemental examinations) are those of the faculty that offers the course. You should note that supplemental exams are available for courses taught in the Faculties of Arts, of Science, and of Education, but **not** for courses taught in the **Faculties of Agricultural and Environmental Sciences, Engineering, or Management**.



Note: All ENVR courses, regardless of where they are taught, are offered only by the Faculty of Science.

For more information on the University regulations and procedures, see [University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information](#).

7.4.6 Courses Outside the Student's Faculty

Students in the School's B.A., B.A. & Sc., B.Sc., and B.Sc.(Ag.Env.Sc.) programs may take courses outside their faculty according to the regulations of their faculty of admission.

These regulations are **not identical**:

- Arts students, see [Faculty of Arts > Undergraduate > Faculty of Arts Degree Requirements > Course Requirements > section 3.6.5.3: Programs Outside the Faculties of Arts or Science – For Arts Students](#).
- Arts and Science students, see [Bachelor of Arts and Science Undergraduate > Degree Requirements > Course Requirements > section 4.5.5.2: Courses Outside the Faculties of Arts and of Science](#).
- Science students, see [Faculty of Science > Undergraduate > Faculty Degree Requirements > Course Requirements > section 11.6.5.2: Courses Outside the Faculties of Arts and Science](#).
- Agricultural and Environmental Sciences students, see [Faculty of Agricultural & Environmental Sciences > Undergraduate > About the Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition \(Undergraduate\) > Faculty Information and Regulations > section 2.4.6.1: Minimum Credit Requirement](#).
- Faculty of Science students in particular should be aware that some courses are restricted and cannot be taken for credit. See the Science Office for Undergraduate Student Advising (SOUSA) website at mcgill.ca/science/student/continuingstudents/bsc/outside.
- Students in the Diploma of Environment follow the program as specified; see [section 7.7.8: Diploma in Environment](#).

7.5 Overview of Programs Offered

The Bieler School of Environment offers nine programs on the Downtown and Macdonald campuses:

1. A **Minor in Environment** is open to all undergraduate students. For more information, see [section 7.7.1: Minor in Environment](#).
2. A **Faculty Program in Environment leading to a B.A.** is open to students meeting the entrance requirements of the Faculty of Arts. For more information, see [section 7.7.2: B.A. Faculty Program in Environment](#).
3. An **Interfaculty Program in Environment leading to a B.A. & Sc.** is open to students meeting the entrance requirements for the Bachelor of Arts and Science. For more information, see [section 7.7.3: Bachelor of Arts and Science \(B.A. & Sc.\) – Interfaculty Programs](#).
4. An **Interfaculty Program in Sustainability, Science and Society** leading to a B.A. & Sc. is offered by the Bieler School of Environment in partnership with the Department of Geography. It is open to students meeting the entrance requirements for the Bachelor of Arts and Science. For more information, see [Bachelor of Arts and Science > Undergraduate > section 4.10.35.3: Bachelor of Arts and Science \(B.A. & Sc.\) - Interfaculty Program in Sustainability, Science and Society \(54 credits\)](#).
5. A **Major in Environment leading to a B.Sc.(Ag.Env.Sc.)** is open to students meeting the entrance requirements of the Faculty of Agricultural and Environmental Sciences. For more information, see [section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#) .
6. A **Major in Environment leading to a B.Sc.** is open to students meeting the entrance requirements of the Faculty of Science. For more information, see [section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#).
7. An **Honours Program in Environment** is open to senior Environment students in the B.A., B.A. & Sc., B.Sc.(Ag.Env.Sc.) and B.Sc. degrees. For more information, see [section 7.7.6: Honours Program in Environment](#).
8. A **Joint Honours Program in Environment** is open to senior Environment students in the B.A. degree. For more information, see [section 7.7.7.1: Bachelor of Arts \(B.A.\) - Joint Honours Component Environment \(36 credits\)](#).
9. A **Diploma in Environment** is available only to students who have already completed a Bachelor or an equivalent degree, and who want to return to university for further undergraduate study. The Diploma is offered by the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, and the Faculty of Science. For more information, see [section 7.7.8: Diploma in Environment](#).

These programs strive to offer the flexibility necessary to deal with the environment through a set of core courses that provide the general knowledge base of the program combined with a progressive series of courses in a trans-disciplinary area of environmental specialisation, referred to as a Domain.

The programs are designed to prepare students for further study in environment or discipline-based graduate programs, and for employment in industry, government, and education.

7.6 Suggested Courses for Freshmen Students

In general, the downtown offerings (section -001) of ENVR courses are restricted to students in U1 and above. Where course capacity allows, Freshman (U0) students are allowed to take the Macdonald campus offerings (section -051) of the 200-level ENVR courses. Students in their U1 to U3 years are welcome to take selected ENVR courses even if they are not in the Environment programs where space permits. For Freshman year course selections, students should refer to the website of their respective faculty.

- Students in the **B.Sc.** degree, see mcgill.ca/science/undergraduate/handbook#bsc-program-specific-advice.
- Students in the **B.Sc.(Ag.Env.Sc.)** degree, see mcgill.ca/macdonald/prospective/freshmanyear/my-freshman-program/courses.
- Students in the **B.A. & Sc.** degree, see mcgill.ca/science/undergraduate/handbook#basc-program-specific-advice.
- Students in the **B.A.** degree, see mcgill.ca/oasis/students/new.

7.7 Browse Academic Programs

The programs and courses in the following sections have been approved for the 2022-2023 academic year as listed.

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 Bieler School of Environment*. 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 Environment 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)

This 18-credit Minor Concentration Environment is intended for Arts students in the multi-track system, Law and Management students. Students in Agricultural & Environmental Sciences, Engineering, and Science should complete the Minor Environment.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

For more information, contact:

Ms. Kathy Roulet, Program Adviser

Email: kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of MSE core courses:

The core ENVR courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to 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 400	(3)	Environmental Thought

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in natural sciences). A list of Suggested Courses is given 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. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Program Adviser.

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
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 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 307	(3)	Globalization
SOCI 365	(3)	Health and Development
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning
WCOM 314	(3)	Communicating Science

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both; you may take ENVB 529 or GEOG 201, but not both; you may take one of BREE 217, CIVE 323 or GEOG 322; you may take BIOL 308 or ENVB 305, but not both; you may take BIOL 465 or WILD 421, but not both; you may take COMP 202 or COMP 204, but not both; you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Global Change Biology of Aquatic Ecosystems
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465**	(3)	Conservation Biology
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 518	(3)	Ecological Engineering
CHEM 212	(4)	Introductory Organic Chemistry 1

CHEM 281	(3)	Inorganic Chemistry 1
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
COMP 202**	(3)	Foundations of Programming
COMP 204**	(3)	Computer Programming for Life Sciences
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 529**	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 422	(3)	Montreal Urban Sustainability Analysis
EPSC 201**	(3)	Understanding Planet Earth
EPSC 233**	(3)	Earth and Life History
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
FDSC 230	(4)	Organic Chemistry
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201**	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Remote Sensing for Earth Observation
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

7.7.1.2 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Minor Environment (18 credits)

This 18-credit Minor is intended for Faculty of Agricultural and Environmental Science students and Faculty of Science students, but is open to students from other faculties as well, except Arts, Law and Management. Students in Arts, Law and Management should complete the Minor Concentration Environment.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. No overlap is allowed between this program and the student's major program or concentration, or a second minor program.

For more information, contact:

Ms Kathy Roulet, Program Adviser

Email: Kathy.roulet@mcgill.ca

Telephone: 514-398-4306

Complementary Courses (18 credits)

18 credits of complementary courses, all of which must fall outside the discipline or field of the student's major program or concentration, and which must be 200-level or above, selected as follows:

12 credits of Bieler School of Environment core courses:

The core courses are taught at both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to 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 400	(3)	Environmental Thought

6 credits of environmentally related courses selected with the approval of the Program Adviser (at least 3 credits must be in social sciences). A list of Suggested Courses is given 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. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Bieler School of Environment Program Adviser.

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
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 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 307	(3)	Globalization
SOCI 365	(3)	Health and Development
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning
WCOM 314	(3)	Communicating Science

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both: you may take ENVB 529 or GEOG 201, but not both: you may take one of BREE 217, CIVE 323 or GEOG 322: you may take BIOL 308 or ENVB 305, but not both: you may take BIOL 465 or WILD 421, but not both: you may take COMP 202 or COMP 204, but not both: you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Global Change Biology of Aquatic Ecosystems
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465**	(3)	Conservation Biology
BREE 217**	(3)	Hydrology and Water Resources

BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 518	(3)	Ecological Engineering
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1
CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
COMP 202**	(3)	Foundations of Programming
COMP 204**	(3)	Computer Programming for Life Sciences
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 529**	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 422	(3)	Montreal Urban Sustainability Analysis
EPSC 201**	(3)	Understanding Planet Earth
EPSC 233**	(3)	Earth and Life History
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
FDSC 230	(4)	Organic Chemistry
GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 201**	(3)	Introductory Geo-Information Science
GEOG 205	(3)	Global Change: Past, Present and Future
GEOG 272	(3)	Earth's Changing Surface
GEOG 308	(3)	Remote Sensing for Earth Observation
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 two course components: Core and Domain.

Core: In the Core, the four introductory courses and an intermediate-level course expose students to different interdisciplinary perspectives, approaches, and world views to help them understand the complexity and conflicts that underlie most environmental problems. In the two senior-level courses of the Core, students will apply the general and specialized knowledge acquired through the rest of their program, to the analysis of a selection of contemporary environmental problems. Students will be challenged by the Core program to look beyond the confines of their individual views of environment.

Domain: 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 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 Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Marilyn Scott Telephone: 514-398-7996 Email: marilyn.scott@mcgill.ca

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 for details.

Numeracy

3 credits from the following, or equivalent (e.g., CEGEP objective 00UN):

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 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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program prerequisites or corequisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the 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

Complementary Courses (33 credits)

33 credits of complementary courses are chosen as follows:

6 credits of Health and Environment

12 credits of Fundamentals, maximum 3 credits from any one category

9 credits from List A

6 credits from List B

Health and Environment

GEOG 221*	(3)	Environment and Health
GEOG 303	(3)	Health Geography
NRSC 221*	(3)	Environment and Health

* Students take either GEOG 221 or NRSC 221, but not both.

Fundamentals: (12 credits)

12 credits of Fundamentals (3 credits from each category):

Health and Infection

GEOG 403	(3)	Global Health and Environmental Change
GEOG 493	(3)	Health and Environment in Africa
GEOG 503	(3)	Advanced Topics in Health Geography
PARA 410	(3)	Environment and Infection
PPHS 529	(3)	Global Environmental Health and Burden of Disease

Economics

AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment

Nutrition

EDKP 292	(3)	Nutrition and Wellness
NUTR 207	(3)	Nutrition and Health

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. You 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
SOCI 350	(3)	Statistics in Social Research

List A:

9 credits from List A (maximum 3 credits from any one category):

Health and Society

SOCI 225	(3)	Medicine and Health in Modern Society
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness
SOCI 331	(3)	Population and Environment

SOCI 515 (3) Medicine and Society

Hydrology and Climate

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 452 (3) Water Resources in Barbados
 BREE 217* (3) Hydrology and Water Resources
 GEOG 321 (3) Climatic Environments
 GEOG 322* (3) Environmental Hydrology

Agriculture

AEBI 425 (3) Tropical Energy and Food
 AGRI 340 (3) Principles of Ecological Agriculture
 AGRI 411 (3) Global Issues on Development, Food and Agriculture
 AGRI 550 (3) Sustained Tropical Agriculture
 NUTR 341 (3) Global Food Security

Decision Making

AGEC 333 (3) Resource Economics
 ECON 440 (3) Health Economics
 PHIL 343 (3) Biomedical Ethics
 RELG 270 (3) Religious Ethics and the Environment
 URBP 507 (3) Planning and Infrastructure

Biology Fundamentals:

* Note: You may take BIOL 308 or ENVB 305, but not both.

AEBI 210 (3) Organisms 1
 AEBI 211 (3) Organisms 2
 BIOL 200 (3) Molecular Biology
 BIOL 308* (3) Ecological Dynamics
 ENVB 305* (3) Population and Community Ecology
 LSCI 211 (3) Biochemistry 1

Development and Ecology

ANTH 212 (3) Anthropology of Development
 ANTH 339 (3) Ecological Anthropology
 ANTH 512 (3) Political Ecology
 ENVR 421 (3) Montreal: Environmental History and Sustainability
 GEOG 300 (3) Human Ecology in Geography
 GEOG 310 (3) Development and Livelihoods
 SOCI 254 (3) Development and Underdevelopment
 SOCI 365 (3) Health and Development

List B:

6 credits from List B (maximum 3 credits from any one category):

Advanced Ecology

* Note: You may take BIOL 451 or NRSC 451, but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
BIOL 451*	(3)	Research in Ecology and Development in Africa
BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
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
PARA 515	(3)	Water, Health and Sanitation

Techniques and Management

* Note: You may take ENVB 529 or GEOG 201, but not both.

AEBI 423	(3)	Sustainable Land Use
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
WILD 421	(3)	Wildlife Conservation

or, advanced quantitative methods course (with approval of Adviser).

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
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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
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: kathy.roulet@mcgill.ca	Professor Jeanne Paquette Telephone: 514-398-4402 Email: jeanne.paquette@mcgill.ca

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 how these materials interact with each other and with the atmosphere. Courses in specific subdisciplines of Earth sciences combined with courses presenting a global vision of how the Earth and its environment operate provide the student with the necessary knowledge of geologic processes. Examples of this knowledge include the effects of mineral and energy extraction on the environment and how industrial waste interacts with solids and liquids in the environment. The Earth science and economics studies merge in the final year when the students apply what they have learned in the domain to current environmental issues.

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 for details.

Numeracy

3 credits, one of 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, one of the following, or their equivalents (e.g., CEGEP objectives Chemistry OOUL):

AECH 110	(4)	General Chemistry 1
CHEM 110	(4)	General Chemistry 1

Other Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses, but does not include the program pre-requisites or co-requisites listed above.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course – Senior Research Project (3 credits)

Only 3 credits will be applied to the program: extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (15 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 240	(3)	Geology in the Field

Domain: Complementary Courses (18 credits)

18 credits are selected from various categories as follows:

Statistics (3 credits)

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Arts.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Economics

6 credits from:

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 and 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

Ms. Kathy Roulet
 Telephone: 514-398-4306
 Email: kathy.roulet@mcgill.ca

7.7.2.3.1 Bachelor of Arts (B.A.) - Faculty Program Environment - Environment and Development (54 credits)

The quest for sustainable paths to economic development requires scholars and practitioners to transcend the boundaries of traditional disciplines. This domain offers students sufficient depth and breadth of study to acquire a strong grasp of current theories, concepts, and approaches to environment and development. It prepares them for graduate study in interdisciplinary programs (e.g., development studies or environmental studies) as well as in integrative social sciences (e.g., anthropology, geography, etc.).

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 for details.

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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 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 schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (12 credits)

ANTH 339	(3)	Ecological Anthropology
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 302	(3)	Environmental Management 1

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 and Community Ecology
GEOG 305*	(3)	Soils and Environment
GEOG 322*	(3)	Environmental Hydrology
NRSC 451	(3)	Research in Ecology and Development in Africa
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 505	(3)	Public Health Nutrition
PARA 410	(3)	Environment and Infection
WILD 421*	(3)	Wildlife Conservation

Social Sciences

6 credits from:

* Note: You may take GEOG 221 or NRSC 221, but not both.

AEBI 423	(3)	Sustainable Land Use
AEBI 425	(3)	Tropical Energy and Food
AGEC 333	(3)	Resource Economics
AGRI 452	(3)	Water Resources in Barbados
ANTH 451	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
ECON 326	(3)	Ecological Economics

ECON 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 201	(3)	Introductory Geo-Information Science
GEOG 221	(3)	Environment and Health
GEOG 300	(3)	Human Ecology in Geography
GEOG 311	(3)	Economic Geography
GEOG 331	(3)	Urban Social Geography
GEOG 404	(3)	Environmental Management 2
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 416	(3)	Africa South of the Sahara
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)
INTD 360	(3)	Environmental Challenges in Development
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, Program Adviser
 Telephone: 514-398-4306
 Email: 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)*

Michelle Maillet
 Email: advisor.geog@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 and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 350	(3)	Ecological Biogeography
PLNT 460	(3)	Plant Ecology

Area 2: Biodiversity and Conservation

BIOL 305	(3)	Animal Diversity
BIOL 355	(3)	Trees: Ecology and Evolution
BIOL 427	(3)	Herpetology
BIOL 465	(3)	Conservation Biology
ENTO 440	()	
MICR 331	(3)	Microbial Ecology
PLNT 358	(3)	Flowering Plant Diversity
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

Area 3: Field Studies in Ecology and Conservation

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1	(1.5)	Applied Tropical Ecology
BIOL 334D2	(1.5)	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

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 347	(3)	Economics of Climate Change
ECON 405	(3)	Natural Resource Economics
GEOG 216	(3)	Geography of the World Economy

Area 8: Development and Underdevelopment

ANTH 212	(3)	Anthropology of Development
ANTH 418	(3)	Environment and Development
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
POLI 227	(3)	Developing Areas/Introduction
POLI 445	(3)	International Political Economy: Monetary Relations

Area 9: Cultures and People

ANTH 206	(3)	Environment and Culture
ANTH 339	(3)	Ecological Anthropology
ENVR 421	(3)	Montreal: Environmental History and Sustainability

GEOG 210 (3) Global Places and Peoples

Area 10: Human Ecology and Health

ANTH 227 (3) Medical Anthropology
 GEOG 300 (3) Human Ecology in Geography
 GEOG 303 (3) Health Geography
 PHIL 343 (3) Biomedical Ethics
 SOCI 225 (3) Medicine and Health in Modern Society
 SOCI 309 (3) Health and Illness

Area 11: Spirituality, Philosophy, and Thought

EDER 461 (3) Society and Change
 PHIL 221 (3) Introduction to History and Philosophy of Science 2
 PHIL 237 (3) Contemporary Moral Issues
 PHIL 341 (3) Philosophy of Science 1
 PHIL 348 (3) Philosophy of Law 1
 RELG 270 (3) Religious Ethics and the Environment
 RELG 340 (0)
 RELG 370 (3) Religion and Human Rights

Area 12: Environmental Management

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
 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:

Michelle Maillet
 Email: [Michelle Maillet](mailto:Michelle.Maillet@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, Science and Society \(54 credits\)](#).

7.7.4 Major in Environment - B.Sc.(Ag.Env.Sc.) and B.Sc.

Students in the Faculty of Agricultural and Environmental Sciences B.Sc.(Ag.Env.Sc.) program and students in the Faculty of Science B.Sc. program can register in the Major in Environment.

The Major comprises two course components: Core and Domain.

1. **Core:** In the Core, the four introductory courses and an intermediate-level course expose students to different interdisciplinary perspectives, approaches, and world views to help them understand the complexity and conflicts that underlie most environmental problems. In the two senior-level courses of the Core, students will apply the general and specialized knowledge acquired through the rest of their program to the analysis of a selection of contemporary environmental problems. Students will be challenged by the Core program to look beyond the confines of their individual views of environment.
2. **Domain:** In addition to the Core, 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. B.Sc.(Ag.Env.Sc.) and B.Sc. students can choose one of the following domains:
 - Biodiversity and Conservation
 - Ecological Determinants of Health (Population and Cellular stream options)
 - Environmetrics
 - Food Production and Environment
 - Land Surface Processes and Environmental Change
 - Renewable Resource Management
 - Water Environments and Ecosystems (Biological and Physical stream options)

B.Sc. students in the Faculty of Science may also choose one of the following domains:

- Atmospheric Environment and Air Quality
 - Earth Sciences and Economics
3. **Senior Core and Research:** In the two senior courses of the Core, students will apply the general and specialized knowledge that they have gained in the program to the analysis of some specific, contemporary environmental problems.

To obtain a Major in Environment, students must:

- register in a domain online using Minerva;
- pass all courses counted toward the Major with **a grade of C or higher**;
- confirm that their course selection satisfies the required components of the Core and their chosen Domain, and that the complementary courses are approved courses in their chosen Domain; and
- fulfil all faculty requirements as specified by the faculty in which they are registered: for the B.Sc.(Ag.Env.Sc.), refer to [Faculty of Agricultural & Environmental Sciences > Undergraduate > About the Faculty of Agricultural and Environmental Sciences, including School of Human Nutrition \(Undergraduate\) > section 2.4.6: Faculty Information and Regulations](#); for the B.Sc., see [Faculty of Science > Undergraduate > section 11.6: Faculty Degree Requirements](#). This includes meeting the minimum credit requirement as specified in their letter of admission.

7.7.4.1 Biodiversity and Conservation Domain

This domain is only open to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Graham Bell Telephone: 514-398-6485 Email: graham.bell@mcgill.ca

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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

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: Complementary Courses (43 credits)

42-43 credits of complementary courses are selected as follows:

9 credits - basic courses in the Biological Principles of Diversity, Systematics, and Conservation

3 credits - Ecology

3 credits - Statistics

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 and Community Ecology

Statistics:

3 credits from the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students should consult the "Course Overlap in the Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

Science, Policy, and Management:

9 credits are chosen from interface between science, policy, and management as follows:

* Note: You may take AGECE 200 or ECON 208, but not both.

** Note: You may take BIOL 451 or NRSC 451, but not both.

AEBI 423	(3)	Sustainable Land Use
AGECE 200*	(3)	Principles of Microeconomics
AGRI 550	(3)	Sustained Tropical Agriculture
ANTH 418	(3)	Environment and Development
BIOL 451**	(3)	Research in Ecology and Development in Africa
ECON 208*	(3)	Microeconomic Analysis and Applications
ECON 225	(3)	Economics of the Environment
ENVB 415	(3)	Ecosystem Management
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 302	(3)	Environmental Management 1
GEOG 360	(3)	Analyzing Sustainability
GEOG 408	(3)	Geography of Development
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
NRSC 451**	(3)	Research in Ecology and Development in Africa
PLNT 312	(3)	Urban Horticulture
URBP 507	(3)	Planning and Infrastructure

Field Courses

3-4 credits from:

AGRI 452	(3)	Water Resources in Barbados
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 335	(3)	Marine Mammals
BIOL 553	(3)	Neotropical Environments
ENTO 340	(3)	Field Entomology
ENVB 410	(3)	Ecosystem Ecology
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
PLNT 358	(3)	Flowering Plant Diversity
PLNT 460	(3)	Plant Ecology
WILD 401	(4)	Fisheries and Wildlife Management
WILD 475	(3)	Desert Ecology
WOOD 441	(3)	Integrated Forest Management

General Scientific Principles

6 credits of general scientific principles selected from the following:

* Note: You may take only one of BREE 529, ENVB 529 or GEOG 314.

** Note: You may take GEOG 322 or BREE 217, but not both.

*** Note: You may take ANSC 326 or BIOL 324, but not both.

ANSC 326***	(3)	Fundamentals of Population Genetics
BIOL 202	(3)	Basic Genetics
BIOL 324***	(3)	Ecological Genetics
BIOL 342	(3)	Global Change Biology of Aquatic Ecosystems
BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 441	(3)	Biological Oceanography
BIOL 515	(3)	Advances in Aquatic Ecology
BREE 217**	(3)	Hydrology and Water Resources
BREE 529*	(3)	GIS for Natural Resource Management
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 529*	(3)	GIS for Natural Resource Management
GEOG 272	(3)	Earth's Changing Surface
GEOG 314*	(3)	Geospatial Analysis
GEOG 321	(3)	Climatic Environments
GEOG 322**	(3)	Environmental Hydrology
GEOG 350	(3)	Ecological Biogeography
LSCI 204	(3)	Genetics
MICR 331	(3)	Microbial Ecology

A second field course from the domain curriculum may also be taken.

Social Science:

3 credits from:

* Note: You may take ANTH 451 or GEOG 451, but not both.

AGEC 333	(3)	Resource Economics
AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 339	(3)	Ecological Anthropology
ANTH 416	(3)	Environment/Development: Africa
ANTH 451*	(3)	Research in Society and Development in Africa
ECON 326	(3)	Ecological Economics
ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 519	(3)	Global Environmental Politics
GEOG 404	(3)	Environmental Management 2
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
URBP 520	(3)	Globalization: Planning and Change

Organisms and Diversity:

6 credits of organisms and diversity selected as follows:

* Note: You may take only one of ENTO 330, BIOL 350 or ENTO 350.

** Note: You may take BIOL 540 or ENVR 540, but not both.

AEBI 421	(3)	Tropical Horticultural Ecology
AGRI 340	(3)	Principles of Ecological Agriculture
ANTH 311	(3)	Primate Behaviour and Ecology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 350*	(3)	Insect Biology and Control
BIOL 355	(3)	Trees: Ecology and Evolution
BIOL 427	(3)	Herpetology
BIOL 540**	(3)	Ecology of Species Invasions
ENTO 330*	(3)	Insect Biology
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects
ENVR 540**	(3)	Ecology of Species Invasions
PARA 424	(3)	Fundamental Parasitology
PLNT 304	(3)	Biology of Fungi
PLNT 434	(3)	Weed Biology and Control
REDM 400	(3)	Science and Museums
WILD 307	(3)	Natural History of Vertebrates
WILD 350	(3)	Mammalogy
WILD 420	(3)	Ornithology

7.7.4.2 Ecological Determinants of Health Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet	Professor Marilyn Scott

Adviser	Mentor
Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Telephone: 514-398-7996 Email: marilyn.scott@mcgill.ca

7.7.4.2.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Ecological Determinants of Health - Cellular (63 credits)

The Cellular concentration in this domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

This domain considers the interface between the environment and human well-being, with particular focus on the triad that ties human health to the environment through the elements of food and infectious agents. Each of these elements is influenced by planned and unplanned environmental disturbances. For example, agricultural practices shift the balance between beneficial and harmful ingredients of food. Use of insecticides presents dilemmas with regard to the 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 Cellular concentration will explore these interactions in more depth, at a physiological level. Students in the Population concentration will gain a depth of understanding at an ecosystem level that looks at society, land, and population health.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 33 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 (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
PHGY 210*	(3)	Mammalian Physiology 2
PSYC 342	(3)	Hormones and Behaviour

Physiology

* Note: You will not receive credit ANSC 323 if you have already received credit for both PHGY 209 and PHGY 210; you will not receive credit for PHGY 209 if you have already received credit for both ANSC 323 and ANSC 424.

ANSC 323*	(3)	Mammalian Physiology
PHGY 209*	(3)	Mammalian Physiology 1

Natural Environment:

6 credits chosen from the Natural Environment, maximum of 3 credits from any one category:

Hydrology and Climate

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 452	(3)	Water Resources in Barbados
BREE 217*	(3)	Hydrology and Water Resources
GEOG 321	(3)	Climatic Environments
GEOG 322*	(3)	Environmental Hydrology

Techniques and Management

AEBI 423	(3)	Sustainable Land Use
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 302	(3)	Environmental Management 1
NUTR 450	(3)	Research Methods: Human Nutrition
URBP 507	(3)	Planning and Infrastructure

or, advanced quantitative methods course (with approval of Adviser).

Pest Management

* Note: You may take BIOL 350 or ENTO 350, but not both.

BIOL 350*	(3)	Insect Biology and Control
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects

Pollution Control and Management

BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Ecological Engineering
NRSC 333	(3)	Pollution and Bioremediation
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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: You are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

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:

24 credits - Fundamentals, maximum of 3 credits from each category

6 credits - List A categories, maximum of 3 credits from any one category

9 credits - List B categories, maximum of 3 credits from any one category

Fundamentals:

24 credits of fundamentals, 3 credits from each category:

Health and Environment

GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
NRSC 221	(3)	Environment and Health

Health and Society

GEOG 403	(3)	Global Health and Environmental Change
GEOG 503	(3)	Advanced Topics in Health Geography
PPHS 529	(3)	Global Environmental Health and Burden of Disease
SOCI 234	(3)	Population and Society
SOCI 309	(3)	Health and Illness
SOCI 331	(3)	Population and Environment

Toxicology

ANSC 312	(3)	Animal Health and Disease
ENVB 500	(3)	Advanced Topics in Ecotoxicology
NUTR 512	(3)	Herbs, Foods and Phytochemicals
PHAR 303	(3)	Principles of Toxicology

Cellular Biology

Note: You will not receive credit for either LSCI 211 or LSCI 202, if you have already received credit for both BIOL 200 and BIOL 201; you will not receive credit for either BIOL 200 or BIOL 201 if you have already received credit for LSCI 202 and LSCI 211.

ANSC 234	(3)	Biochemistry 2
BIOL 201	(3)	Cell Biology and Metabolism
LSCI 202	(3)	Molecular Cell Biology

Molecular Biology

Note: You will not receive credit for either LSCI 211 or LSCI 202 if you have already received credit for both BIOL 200 and BIOL 201; you will not receive credit for either BIOL 200 or BIOL 201 if you have already received credit for both LSCI 202 and LSCI 211.

BIOL 200	(3)	Molecular Biology
LSCI 211	(3)	Biochemistry 1

Statistics

One of the following Statistics courses or equivalent:

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
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MATH 203 (3) Principles of Statistics 1

Nutrition

ANSC 433 (3) Animal Nutrition and Metabolism

NUTR 207 (3) Nutrition and Health

NUTR 307 (3) Metabolism and Human Nutrition

Advanced Ecology

* Note: You may take ENVR 540 or BIOL 540, but not both; you may take BIOL 451 or NRSC 451, but not both.

AEBI 421 (3) Tropical Horticultural Ecology

BIOL 451* (3) Research in Ecology and Development in Africa

BIOL 465 (3) Conservation Biology

BIOL 540* (3) Ecology of Species Invasions

BIOL 553 (3) Neotropical Environments

ENVB 410 (3) Ecosystem Ecology

ENVR 540* (3) Ecology of Species Invasions

MICR 331 (3) Microbial Ecology

NRSC 451* (3) Research in Ecology and Development in Africa

PLNT 460 (3) Plant Ecology

List A:

6 credits from the following List A categories, maximum of 3 credits from any one category:

Hydrology, Climate, and Agriculture

* Note: You may take BREE 217 or GEOG 322, but not both.

AGRI 340 (3) Principles of Ecological Agriculture

AGRI 452 (3) Water Resources in Barbados

AGRI 550 (3) Sustained Tropical Agriculture

BREE 217* (3) Hydrology and Water Resources

GEOG 321 (3) Climatic Environments

GEOG 322* (3) Environmental Hydrology

Decision Making, Techniques and Management

* Note: You may take AGECE 200 or ECON 208, but not both; you may take ENVB 529 or GEOG 201, but not both.

AEBI 423 (3) Sustainable Land Use

AGECE 200* (3) Principles of Microeconomics

AGECE 333 (3) Resource Economics

ECON 208* (3) Microeconomic Analysis and Applications

ENVB 437 (3) Assessing Environmental Impact

ENVB 529* (3) GIS for Natural Resource Management

ENVR 422 (3) Montreal Urban Sustainability Analysis

GEOG 201* (3) Introductory Geo-Information Science

GEOG 302 (3) Environmental Management 1

GEOG 404	(3)	Environmental Management 2
PHIL 343	(3)	Biomedical Ethics
URBP 507	(3)	Planning and Infrastructure

or, advanced quantitative methods course (with approval of Adviser).

Development and History

ANTH 212	(3)	Anthropology of Development
EDER 461	(3)	Society and Change
HIST 292	(3)	History and the Environment
NUTR 501	(3)	Nutrition in Developing Countries
SOCI 254	(3)	Development and Underdevelopment
URBP 520	(3)	Globalization: Planning and Change

List B:

9 credits from the following List B categories, maximum of 3 credits from any one category:

Immunology and Infectious Disease

ANSC 400	(3)	Eukaryotic Cells and Viruses
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 324	(3)	Fundamental Virology
MIMM 413	(3)	Parasitology
PARA 424	(3)	Fundamental Parasitology
PARA 438	(3)	Immunology
PPHS 501	(3)	Population Health and Epidemiology

Populations and Place

* Note: You may take ANTH 451 or GEOG 451, but not both.

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 451*	(3)	Research in Society and Development in Africa
CANS 407	(3)	Regions of Canada
ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 300	(3)	Human Ecology in Geography
GEOG 451*	(3)	Research in Society and Development in Africa
GEOG 498	(3)	Humans in Tropical Environments
NUTR 341	(3)	Global Food Security

Pollution Control and Pest Management

* Note: You may take BIOL 350 or ENTO 350, but not both.

BIOL 350*	(3)	Insect Biology and Control
BREE 322	(3)	Organic Waste Management
ENTO 350*	(3)	Insect Biology and Control
ENTO 352	(3)	Biocontrol of Pest Insects

NRSC 333	(3)	Pollution and Bioremediation
PARA 515	(3)	Water, Health and Sanitation

Genetics

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

7.7.4.3 Environmetrics Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
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7.7.4.3.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment - Environmetrics (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment program.

In view of the crucial need for sound study design and appropriate statistical methods for analyzing environmental changes and their impacts on humans and various life forms and their ecological relationships, this program is intended to provide students with a strong background in the use of statistical methods of data analysis in environmental sciences.

Graduates will be capable of effectively participating in the design of environmental studies and adequately analyzing data for use by the environmental community. Accordingly, the list of courses for the Environmetrics Domain is composed primarily of statistics courses and mathematically oriented courses with biological and ecological applications. The list is completed by general courses that refine the topics introduced in the Bieler School of Environment core courses by focusing on the ecology of living organisms, soil sciences or water resources, and impact assessment. These courses should allow the students to understand their interlocutors and be understood by them in their future job. Students can further develop their background in applied or mathematical statistics and their expertise in environmental sciences by taking complementary courses along each of two axes: statistics and mathematics, and environmental sciences. An internship is also offered to students to provide them with preliminary professional experience.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Prerequisites and equivalent courses are common with Math courses, so check with your adviser when choosing your courses. Be especially careful with Statistics courses, as you will receive no credit (and no warning!) for a course that is considered equivalent to one you have already taken. 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.

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: 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 if you want to take it on the Downtown campus, and in Section 051 of an ENVR course if you want to take it on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth

ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

AEMA 403	(3)	Environmetrics Stage
AEMA 414	(3)	Temporal and Spatial Statistics 01

Domain - Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

12 credits - Fundamentals

3 credits - Basic Environmental Science

6 credits - Statistics, one of two options

15 credits - List 1 and List 2

Fundamentals:

12 credits of Fundamentals, 3 credits from each category.

Ecology

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

Impact

ENVB 437	(3)	Assessing Environmental Impact
MIME 308	(3)	Social Impact of Technology

Modelling

BIOL 309	(3)	Mathematical Models in Biology
ENVB 506	(3)	Quantitative Methods: Ecology

GIS Techniques

ENVB 529	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Basic Environmental Science:

One of:

BREE 217	(3)	Hydrology and Water Resources
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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:

AEMA 310	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry

And one of:

AEMA 411	(3)	Experimental Designs 01
CIVE 555	(3)	Environmental Data Analysis
GEOG 351	(3)	Quantitative Methods
SOCI 461	(3)	Quantitative Data Analysis

A total of 15 credits are chosen from the following two lists.

List 1

3 credits minimum of statistics and mathematics chosen from:

* Note: or equivalent courses to BREE 252 or BREE 319.

BIOL 434	(3)	Theoretical Ecology
BREE 252*	(3)	Computing for Engineers
BREE 319*	(3)	Engineering Mathematics
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
MATH 223	(3)	Linear Algebra
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Applied Regression
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
SOCI 504	(3)	Quantitative Methods 1
SOCI 580	(3)	Social Research Design and Practice

List 2

3 credits minimum of environmental sciences chosen from:

AGRI 452	(3)	Water Resources in Barbados
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 553	(3)	Neotropical Environments
ENVB 313	(3)	Phylogeny and Biogeography
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 300	(3)	Human Ecology in Geography
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 494	(3)	Urban Field Studies
GEOG 499	(3)	Subarctic Field Studies
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology
WILD 401	(4)	Fisheries and Wildlife Management

7.7.4.4 Food Production and Environment Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Caroline Begg Telephone: 514-398-8749 Email: caroline.begg@mcgill.ca

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)

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 business of food production is an area of human activity with a large and intimate interaction with the environment. As the global population rises, demand for food and food production increases. This demand must be met through a combination of increased productivity of existing agricultural land and by bringing new arable land into production. This is a serious challenge for two main reasons. Firstly, there are environmental impacts of agricultural activities which can be significant and which can be difficult to assess and contain, as the effects range from loss of biodiversity due to increasing farm size, production of biofuels versus food, non-point source pollution of rivers and lakes, and a loss of arable land to urbanization. Secondly, a growing population needs support from a number of different land uses (e.g., urban growth, transportation, water resource use, timber resources, etc.), many of which conflict, and all of which compete with food production land requirements. As the available land resource decreases, land-use competition for what remains will grow more fierce, making the need for smart and informed decision-making related to food production increasingly critical.

Program Prerequisites or Corequisites

All students in this program MUST take these pre- or corequisite courses, or their equivalents. These courses are taken as follows:

One of the following courses or CEGEP equivalent (e.g., CEGEP objective 00XU):

BIOL 112	(3)	Cell and Molecular Biology
LSCI 211	(3)	Biochemistry 1

One of the following 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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses, 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)

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (6 credits)

AEBI 210	(3)	Organisms 1
AGRI 340	(3)	Principles of Ecological Agriculture

Domain: Complementary Courses (36 credits)

36 credits of complementary courses selected as follows:

18 credits - Fundamentals

12 credits - Applied Sciences

6 credits - Social Sciences/Humanities

The Applied and Social Sciences courses are grouped according to subtopics. Students can choose their courses from one subtopic, or a combination of subtopics.

Fundamentals (18 credits)

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

One of:

ANSC 250	(3)	Principles of Animal Science
PLNT 300	(3)	Cropping Systems

One of:

BIOL 202	(3)	Basic Genetics
LSCI 204	(3)	Genetics

One of:

ENVB 210	(3)	The Biophysical Environment
GEOG 305	(3)	Soils and Environment

One of:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

One of:

AGEC 200	(3)	Principles of Microeconomics
ECON 208	(3)	Microeconomic Analysis and Applications

Applied Sciences (12 credits)

Food and Human Health

* Note: Students take FDSC 200 or NUTR 207, but not both.

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
FDSC 200*	(3)	Introduction to Food Science
MICR 331	(3)	Microbial Ecology
NUTR 207*	(3)	Nutrition and Health
NUTR 501	(3)	Nutrition in Developing Countries
NUTR 505	(3)	Public Health Nutrition
PARA 410	(3)	Environment and Infection
PHAR 303	(3)	Principles of Toxicology

Food Production

AEBI 421	(3)	Tropical Horticultural Ecology
AEBI 425	(3)	Tropical Energy and Food
AGRI 215	(3)	Agro-Ecosystems Field Course
AGRI 325	(3)	Sustainable Agriculture and Food Security
AGRI 550	(3)	Sustained Tropical Agriculture
BIOL 385	(3)	Plant Growth and Development

ENTO 352	(3)	Biocontrol of Pest Insects
PLNT 302	(3)	Forage Crops and Pastures
PLNT 307	(3)	Agroecology of Vegetables and Fruits
PLNT 353	(3)	Plant Structure and Function
PLNT 430	(3)	Pesticides in Agriculture
PLNT 434	(3)	Weed Biology and Control
SOIL 315	(3)	Soil Nutrient Management

Natural Resources and Natural Resource Impacts

* Note: Students take BIOL 465 or WILD 421, but not both.

** Note: Students take BREE 217 or GEOG 322, but not both.

AGRI 435	(3)	Soil and Water Quality Management
AGRI 452	(3)	Water Resources in Barbados
BIOL 465*	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 518	(3)	Ecological Engineering
ENVB 500	(3)	Advanced Topics in Ecotoxicology
GEOG 322**	(3)	Environmental Hydrology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 510	(3)	Environmental Soil Chemistry
WILD 401	(4)	Fisheries and Wildlife Management
WILD 421*	(3)	Wildlife Conservation

Social Science (6 credits)

Economic and Resource Policy

* Note: Students take AGECE 333 or ECON 405, but not both.

AGECE 320	(3)	Intermediate Microeconomic Theory
AGECE 333*	(3)	Resource Economics
AGECE 430	(3)	Agriculture, Food and Resource Policy
AGECE 442	(3)	Economics of International Agricultural Development
ECON 225	(3)	Economics of the Environment
ECON 405*	(3)	Natural Resource Economics

Social Change and Human Impacts

ENVR 421	(3)	Montreal: Environmental History and Sustainability
GEOG 406	(3)	Human Dimensions of Climate Change
GEOG 410	(3)	Geography of Underdevelopment: Current Problems
GEOG 498	(3)	Humans in Tropical Environments
GEOG 510	(3)	Humid Tropical Environments
HIST 510	(3)	Environmental History of Latin America (Field)

SOCI 254 (3) Development and Underdevelopment

Environment Management

* Note: Students may take only one of BREE 529, ENVB 529, or GEOG 201.

AEBI 423	(3)	Sustainable Land Use
ANTH 418	(3)	Environment and Development
BREE 529*	(3)	GIS for Natural Resource Management
ENVB 437	(3)	Assessing Environmental Impact
ENVB 529*	(3)	GIS for Natural Resource Management
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 530	(3)	Global Land and Water Resources
MGPO 440	(3)	Strategies for Sustainability

7.7.4.5 Land Surface Processes and Environmental Change Domain

This domain is open only to students in the B.Sc.(Ag.Env.Sc.) Major Environment or B.Sc. Major Environment program.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Ian Strachan Telephone: 514-398-7935 Email: ian.strachan@mcgill.ca

7.7.4.5.1 Bachelor of Science (Agricultural and Environmental Sciences) (B.Sc.(Ag.Env.Sc.)) or Bachelor of Science (B.Sc.) - Major Environment-Land Surface Processes and Environmental Change (63 credits)

This domain (63 credits including core) is open only to students in the B.Sc.(Ag.Env.Sc.) Major in Environment or B.Sc. Major in Environment programs.

The thin soil layer on the planet's land surfaces controls the vital inputs of water, nutrients, and energy to terrestrial and freshwater aquatic ecosystems. Widespread occurrences around the globe of desertification, soil erosion, deforestation, and land submergence over water reservoirs indicate that this dynamic system is under increasing pressure from population growth and changes in climate and land uses. Production of key greenhouse gases (water vapour, CO₂, and methane) is controlled by complex processes operating at the land surface, involving climate change feedbacks that need to be fully understood, given current global warming trends.

The program introduces students to the interacting physical and biogeochemical processes at the atmosphere-lithosphere interface, which fashion land surface habitats and determine their biological productivity and response to anthropogenic or natural environmental changes. Through an appropriate selection of courses, students can prepare for graduate training in emerging research areas such as earth system sciences, environmental hydrology, and landscape ecology.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning their schedule and registering for courses, students should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability

ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama
GEOG 451	(3)	Research in Society and Development in Africa

Domain Required Course (3 credits)

GEOG 203	(3)	Environmental Systems
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Domain: Complementary Courses (39 credits)

39 credits of complementary courses are selected as follows:

9 credits - 3 credits from each category of Statistics, Geographic Information Systems, Weather and Climate

9 credits of fundamental land surface processes

3 credits of environment and resource management

3 credits of field course

3 credits of social science

12 credits total of advanced studies chosen from List A: Particular Environments and List B: Surface Processes

Statistics

3 credits from one of the following Statistics courses or equivalent:

* Note: Other appropriate statistics courses may be approved as substitutions by the Program Adviser. Credit given for Statistics courses is subject to certain restrictions. Students in the Faculty of Arts or the Faculty of Science should consult the "Course Overlap" information in the "Course Requirements" section of the eCalendar for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Geographic Information Systems

3 credits from:

ENVB 529	(3)	GIS for Natural Resource Management
GEOG 201	(3)	Introductory Geo-Information Science

Weather and Climate

3 credits from:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

Fundamental Land Surface Processes

9 credits total of fundamental land surface processes chosen as follows:

0-3 credits chosen from:

GEOG 321 (3) Climatic Environments

0-3 credits from:

GEOG 272 (3) Earth's Changing Surface

SOIL 300 (3) Geosystems

0-3 credits from:

ENVB 210 (3) The Biophysical Environment

GEOG 305 (3) Soils and Environment

0-3 credits from:

BREE 217 (3) Hydrology and Water Resources

GEOG 322 (3) Environmental Hydrology

Environment and Resource Management:

3 credits from:

* Note: You may take BIOL 308 or ENVB 305, but not both.

AGRI 452 (3) Water Resources in Barbados

AGRI 550 (3) Sustained Tropical Agriculture

BIOL 308* (3) Ecological Dynamics

BIOL 465 (3) Conservation Biology

CIVE 225 (4) Environmental Engineering

ENVB 305* (3) Population and Community Ecology

ENVB 437 (3) Assessing Environmental Impact

ENVB 530 (3) Advanced GIS for Natural Resource Management

ENVR 422 (3) Montreal Urban Sustainability Analysis

ESYS 301 (3) Earth System Modelling

GEOG 302 (3) Environmental Management 1

GEOG 308 (3) Remote Sensing for Earth Observation

GEOG 404 (3) Environmental Management 2

GEOG 506 (3) Advanced Geographic Information Science

GEOG 530 (3) Global Land and Water Resources

SOIL 315 (3) Soil Nutrient Management

WILD 421 (3) Wildlife Conservation

WOOD 441 (3) Integrated Forest Management

Field Course

3 credits from:

ATOC 555	(3)	Field Course 1
BIOL 553	(3)	Neotropical Environments
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies
WILD 475	(3)	Desert Ecology

Social Science:

3 credits from:

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
HIST 510	(3)	Environmental History of Latin America (Field)
NRSC 221	(3)	Environment and Health
POLI 350	(3)	Global Environmental Politics
URBP 520	(3)	Globalization: Planning and Change
WCOM 314	(3)	Communicating Science

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:

BIOL 432	(3)	Limnology
ENVB 410	(3)	Ecosystem Ecology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
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
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation

GEOG 505	(3)	Global Biogeochemistry
GEOG 537	(3)	Advanced Fluvial Geomorphology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
SOIL 510	(3)	Environmental Soil Chemistry
SOIL 535	(3)	Soil Ecology

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: kathy.roulet@mcgill.ca	Professor Joann Whalen Telephone: 514-398-7943 Email: joann.whalen@mcgill.ca

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
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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Ms. Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 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 and 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 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 410	(3)	Ecosystem Ecology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
GEOG 322*	(3)	Environmental Hydrology
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PLNT 460	(3)	Plant Ecology

Social Processes:

6 credits of social processes selected as follows:

* Note: You may take AGECE 333 and ECON 405, but not both.

AGEC 242	(3)	Management Theories and Practices
AGEC 333*	(3)	Resource Economics
ANTH 339	(3)	Ecological Anthropology
CANS 407	()	
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

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 300	(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: kathy.roulet@mcgill.ca	Professor Brian Leung Telephone: 514-398-6460 Email: brian.leung2@mcgill.ca

Water Environments and Ecosystems – Physical

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Nigel Roulet Telephone: 514-398-4945 Email: nigel.roulet@mcgill.ca

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)

The Water Environments and Ecosystems - Biological (60 credits including core) is a concentration open only to students in the B.Sc.(Ag.Env.Sc.); Major in Environment or B.Sc.; Major in Environment program.

The program focuses on the ecological facet of the water environment and the mechanisms regulating the different forms of life in water bodies; and to a lesser extent on 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 "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are 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
GEOG 451	(3)	Research in Society and Development in Africa

Domain: Required Courses (3 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
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Domain: Complementary Courses (36 credits)

36 credits of complementary courses are selected as follows:

3 credits - Meteorology

6 credits - Hydrology and Ecology

3 credits - Statistics

3 credits - Field Course

3 credits - Social Sciences and Policy

18 credits chosen in total from List A: Water Environments and Habitats, and List B: Surface and Atmospheric Processes

Meteorology:

3 credits from:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

Hydrology and Ecology:

6 credits selected as follows:

3 credits from:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

3 credits from:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

Statistics:

3 credits from:

* Note: Other appropriate statistics courses may be approved as substitutes by the Program Adviser. Credit for Statistics courses is subject to certain restrictions. Students in the Faculty of Arts or the Faculty of Science should consult "Course Overlap" information in the "Course Requirements" section of the eCalendar for the Faculty of Science.

AEMA 310*	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1	(1.5)	Applied Tropical Ecology
BIOL 334D2	(1.5)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
GEOG 495	(3)	Field Studies - Physical Geography
WILD 401	(4)	Fisheries and Wildlife Management

Social Sciences and Policy:

3 credits from:

AGEC 333	(3)	Resource Economics
ANSC 555	(3)	The Use and Welfare of Animals
ANTH 339	(3)	Ecological Anthropology
ANTH 418	(3)	Environment and Development
ECON 225	(3)	Economics of the Environment
ECON 326	(3)	Ecological Economics
ENVB 437	(3)	Assessing Environmental Impact
ENVR 421	(3)	Montreal: Environmental History and Sustainability
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 302	(3)	Environmental Management 1
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
GEOG 530	(3)	Global Land and Water Resources
HIST 510	(3)	Environmental History of Latin America (Field)
POLI 345	(3)	International Organizations
POLI 350	(3)	Global Environmental Politics

URBP 520	(3)	Globalization: Planning and Change
WCOM 314	(3)	Communicating Science
WILD 421	(3)	Wildlife Conservation

18 credits chosen in total from List A and List B as follows:

List A (Water Environments and Habitats)

9-12 credits chosen from:

* Note: you may take BIOL 540 or ENVR 540, but not both; you may take ENVB 210 or GEOG 305, but not both,

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Global Change Biology of Aquatic Ecosystems
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
BREE 533	(3)	Water Quality Management
ENVB 210*	(3)	The Biophysical Environment
ENVB 410	(3)	Ecosystem Ecology
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVR 540*	(3)	Ecology of Species Invasions
GEOG 305*	(3)	Soils and Environment
GEOG 470	(3)	Wetlands
MICR 331	(3)	Microbial Ecology
NRSC 333	(3)	Pollution and Bioremediation
PARA 410	(3)	Environment and Infection
SOIL 535	(3)	Soil Ecology
WILD 302	(3)	Fish Ecology
WILD 401	(4)	Fisheries and Wildlife Management

List B (Surface and Atmospheric Processes)

6-9 credits chosen from:

* Note: you may take ATOC 219 or CHEM 219, but not both; you may take ENVB 529 or GEOG 201, but not both.

ATOC 219*	(3)	Introduction to Atmospheric Chemistry
BIOL 515	(3)	Advances in Aquatic Ecology
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
CHEM 267	(3)	Introductory Chemical Analysis
ENVB 529*	(3)	GIS for Natural Resource Management
ENVB 530	(3)	Advanced GIS for Natural Resource Management
EPSC 220	(3)	Principles of Geochemistry
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 372	(3)	Running Water Environments

GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 537	(3)	Advanced Fluvial Geomorphology
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)

The Water Environments and Ecosystems - Physical (63 credits, including the core) is a concentration open only to students in the B.Sc.(Ag.Env.Sc.); Major in Environment or B.Sc.; Major in Environment program.

The program focuses on the physical facet of the water environment, and the transport and transformation mechanisms of water on the planet, from rivers to the oceans and atmosphere; and to a lesser extent on the biological processes taking place in water bodies.

Graduates of this domain are qualified to enter the work force or to pursue advanced studies in fields such as marine biology, geography, physical oceanography, and atmospheric science.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 30 credits at the 200 level and a minimum of 12 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are 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)

Note: Only 3 credits will be applied to the program; extra credits will count as electives.

AEBI 427	(6)	Barbados Interdisciplinary Project
AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama
GEOG 451	(3)	Research in Society and Development in Africa

Domain: Required Courses (9 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 315	(3)	Thermodynamics and Convection
GEOG 372	(3)	Running Water Environments

Domain: Complementary Courses (33 credits)

33 credits of complementary courses are selected as follows:

3 credits - Meteorology

6 credits - Hydrology and Ecology

3 credits - Statistics

3 credits - Intermediate Calculus

3 credits - Field course

9 credits chosen from List A: Engineering/Math/Hydrology

6 credits chosen from List B: Marine and Freshwater Biology

Meteorology

3 credits from:

ATOC 215	(3)	Oceans, Weather and Climate
ENVB 301	(3)	Meteorology

Hydrology and Ecology

6 credits selected as follows:

3 credits from:

BREE 217	(3)	Hydrology and Water Resources
GEOG 322	(3)	Environmental Hydrology

3 credits from:

BIOL 308	(3)	Ecological Dynamics
ENVB 305	(3)	Population and Community Ecology

Statistics

3 credits from:

* Note: Other appropriate statistics courses may be approved as substitutes by the Program Adviser.

Credit given for Statistics courses is subject to certain restrictions. Students in the Faculty of Arts or the Faculty of Science should consult the "Course Overlap" information in the "Course Requirements" section of the eCalendar for the Faculty of Science.

AEMA 310*	(3)	Statistical Methods 1
BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Intermediate Calculus

3 credits from:

AEMA 202	(3)	Intermediate Calculus
MATH 222	(3)	Calculus 3

Field Course:

3 credits selected from the following courses or an equivalent Aquatic Field course:

AGRI 452	(3)	Water Resources in Barbados
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1	(1.5)	Applied Tropical Ecology
BIOL 334D2	(1.5)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
GEOG 495	(3)	Field Studies - Physical Geography
WILD 401	(4)	Fisheries and Wildlife Management

List A: (Engineering/Math/Hydrology)

6-9 credits chosen from:

* Note: You can take ENVB 529 or GEOG 201, but not both; you can take ENVB 530 or GEOG 506, but not both; you can take ENVB 210 or GEOG 305, but not both.

ATOC 309	(3)	Weather Radars and Satellites
BREE 416	(3)	Engineering for Land Development
BREE 420	(3)	Engineering for Sustainability
BREE 506	(3)	Advances in Drainage Management
BREE 509	(3)	Hydrologic Systems and Modelling.
BREE 533	(3)	Water Quality Management
CIVE 323	(3)	Hydrology and Water Resources
ENVB 210*	(3)	The Biophysical Environment
ENVB 529*	(3)	GIS for Natural Resource Management
ENVB 530	(3)	Advanced GIS for Natural Resource Management
EPSC 549	(3)	Hydrogeology
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 305*	(3)	Soils and Environment
GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 537	(3)	Advanced Fluvial Geomorphology
SOIL 315	(3)	Soil Nutrient Management
URBP 520	(3)	Globalization: Planning and Change

0-3 credits from:

AEMA 305	(3)	Differential Equations
MATH 315	(3)	Ordinary Differential Equations

List B: (Marine and Freshwater Biology)

6 credits chosen from:

BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Global Change Biology of Aquatic Ecosystems
BIOL 432	(3)	Limnology
BIOL 441	(3)	Biological Oceanography

BIOL 465	(3)	Conservation Biology
BIOL 553	(3)	Neotropical Environments
ENVB 410	(3)	Ecosystem Ecology
GEOG 470	(3)	Wetlands
GEOG 505	(3)	Global Biogeochemistry
GEOG 530	(3)	Global Land and Water Resources
WILD 302	(3)	Fish Ecology
WILD 421	(3)	Wildlife Conservation

7.7.5 Major in Environment – B.Sc.

In addition to the domains available to students in the Major program in either the Faculty of Science or the Faculty of Agricultural and Environmental Sciences, “Major in Environment - B.Sc.” students in the Faculty of Science can choose from one of the following two domains:

- Atmospheric Environment and Air Quality, or
- Earth Sciences and Economics.

Refer to [section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#) for the general guidelines and regulations, which apply to all domains in the Major in Environment program.

7.7.5.1 Atmospheric Environment and Air Quality Domain

This domain is open only to students in the B.Sc. Major in Environment program in the Faculty of Science.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Frédéric Fabry Telephone: 514-398-3652 Email: frederic.fabry@mcgill.ca

7.7.5.1.1 Bachelor of Science (B.Sc.) - Major Environment - Atmospheric Environment and Air Quality (60 credits)

The rapid expansion of industrialization has been accompanied by a host of environmental problems, many, if not most, involving the atmosphere. Some problems are of a local nature, such as air pollution in large urban centres, while others are global, or at least reach areas far removed from industrial activities.

The emphasis in this domain is on the mechanisms of atmospheric flow and on atmospheric chemistry. Courses examine how the atmosphere transports pollution, lifting it to great heights into the stratosphere or keeping it trapped near the ground, moving it around the globe or imprisoning it locally, or how it simply cleanses itself of pollution through rainfall. The domain also gives students the training required to understand the important chemical reactions taking place within the atmosphere, as well as the know-how necessary to measure and analyze atmospheric constituents.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>).

Program Requirements

Note: Students are required to take a maximum of 31 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

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: Required Courses (15 credits)

15 credits are selected from:

* Note: You may take ATOC 219 or CHEM 219, but not both.

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 219*	(3)	Introduction to Atmospheric Chemistry
ATOC 315	(3)	Thermodynamics and Convection
CHEM 219*	(3)	Introduction to Atmospheric Chemistry
GEOG 308	(3)	Remote Sensing for Earth Observation

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
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 377	(3)	Instrumental Analysis 2
CHEM 519*	(3)	Advances in Chemistry of Atmosphere
CIVE 225	(4)	Environmental Engineering
CIVE 561	(3)	Greenhouse Gas Emissions
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
GEOG 505	(3)	Global Biogeochemistry
MATH 223	(3)	Linear Algebra
MATH 315*	(3)	Ordinary Differential Equations
NRSC 333	(3)	Pollution and Bioremediation
NRSC 510	(3)	Agricultural Micrometeorology

Social Science:

6 credits from:

ANTH 206	(3)	Environment and Culture
ANTH 418	(3)	Environment and Development
ECON 225	(3)	Economics of the Environment
ECON 347	(3)	Economics of Climate Change
ENVR 422	(3)	Montreal Urban Sustainability Analysis
GEOG 221	(3)	Environment and Health
GEOG 302	(3)	Environmental Management 1
GEOG 303	(3)	Health Geography
GEOG 403	(3)	Global Health and Environmental Change
GEOG 404	(3)	Environmental Management 2
GEOG 498	(3)	Humans in Tropical Environments
RELG 270	(3)	Religious Ethics and the Environment

7.7.5.2 Earth Sciences and Economics Domain

This domain is open only to students in the B.Sc. Major Environment program in the Faculty of Science.

Adviser	Mentor
Ms. Kathy Roulet Telephone: 514-398-4306 Email: kathy.roulet@mcgill.ca	Professor Jeanne Paquette Telephone: 514-398-4402 Email: jeanne.paquette@mcgill.ca

7.7.5.2.1 Bachelor of Science (B.Sc.) - Major Environment - Earth Sciences and Economics (66 credits)

The resources necessary for human society are extracted from the Earth, used as raw materials in our factories and refineries, and then returned to the Earth as waste. Geological processes produce resources humans depend on, and they also determine the fate of wastes in the environment. Understanding Earth's

geologic processes provides us with the knowledge to mitigate many of our society's environmental impacts due to resource extraction and waste disposal. Additionally, economics frequently affects what energy sources power our society and how our wastes are treated. Earth sciences and economics are essential for our understanding of the many mechanisms, both physical and social, that affect Earth's environment.

This domain includes the fundamentals of each discipline. Students learn of minerals, rocks, soils, and waters and how these materials interact with each other and with the atmosphere. Fundamental economic theory and the economic effects of public policy toward resource industries, methods of waste disposal, and the potential effects of global warming on the global economy are also explored.

Suggested First Year (U1) Courses

For suggestions on courses to take in your first year (U1), you can consult the "Bieler School of Environment Student Handbook" available on the website (<http://www.mcgill.ca/environment>), or contact Kathy Roulet, the Program Adviser (kathy.roulet@mcgill.ca).

Program Requirements

Note: Students are required to take a maximum of 34 credits at the 200 level and a minimum of 15 credits at the 400 level or higher in this program. This includes core and required courses.

Location Note: When planning your schedule and registering for courses, you should verify where each course is offered because courses for this program are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue.

Core: Required Courses (18 credits)

Location Note: Core required courses are taught at both McGill's Downtown campus and at the Macdonald campus in Sainte-Anne-de-Bellevue. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to take on the Macdonald campus.

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought

Core: Complementary Course - Senior Research Project (3 credits)

Only 3 credits will be applied to the program; extra credits will count as electives.

AGRI 519	(6)	Sustainable Development Plans
ENVR 401	(3)	Environmental Research
ENVR 451	(6)	Research in Panama

Domain: Required Courses (21 credits)

ECON 230D1	(3)	Microeconomic Theory
ECON 230D2	(3)	Microeconomic Theory
ECON 405	(3)	Natural Resource Economics
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 240	(3)	Geology in the Field

Domain: Complementary Courses (24 credits)

24 credits of complementary courses are selected as follows:

3 credits - Statistics courses

12 credits - Economic Resources

9 credits - Natural Resources

Statistics:

One of the following Statistics courses or equivalent.

Note: Credit given for Statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

AEMA 310	(3)	Statistical Methods 1
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1

Economic Resources

12 credits from:

AGEC 333	(3)	Resource Economics
ECON 209	(3)	Macroeconomic Analysis and Applications
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
ECON 326	(3)	Ecological Economics
ECON 347	(3)	Economics of Climate Change
ECON 408	(3)	Public Sector Economics 1
ECON 409	(3)	Public Sector Economics 2
ECON 416	(3)	Topics in Economic Development 2
ECON 511	(3)	Energy, Economy and Environment
ECON 525	(3)	Project Analysis
ENVB 437	(3)	Assessing Environmental Impact
ENVR 422	(3)	Montreal Urban Sustainability Analysis

Natural Resources

9 credits from:

* ANTH 451 or GEOG 451 can be taken, but not both; BIOL 451 or NRSC 451 can be taken, but not both; ENVB 529 or GEOG 201 can be taken, but not both.

AGRI 550	(3)	Sustained Tropical Agriculture
ANTH 451*	(3)	Research in Society and Development in Africa
BIOL 451*	(3)	Research in Ecology and Development in Africa
BIOL 553	(3)	Neotropical Environments
ENVB 500	(3)	Advanced Topics in Ecotoxicology
ENVB 529*	(3)	GIS for Natural Resource Management
ENVR 421	(3)	Montreal: Environmental History and Sustainability
EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3
EPSC 355	(3)	Sedimentary Geology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 452	(3)	Mineral Deposits
EPSC 519	(3)	Isotopes in Earth and Environmental Science

EPSC 549	(3)	Hydrogeology
EPSC 580	()	
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 201*	(3)	Introductory Geo-Information Science
GEOG 302	(3)	Environmental Management 1
GEOG 305	(3)	Soils and Environment
GEOG 322	(3)	Environmental Hydrology
GEOG 451*	(3)	Research in Society and Development in Africa
MIME 320	(3)	Extraction of Energy Resources
NRSC 451*	(3)	Research in Ecology and Development in Africa
SOIL 300	(3)	Geosystems
SOIL 315	(3)	Soil Nutrient Management
SOIL 326	(3)	Soils in a Changing Environment
SOIL 535	(3)	Soil Ecology

7.7.6 Honours Program in Environment

Adviser

Ms. Kathy Roulet, Program Adviser
 Telephone: 514-398-4306
 Email: 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 Bieler 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 Bieler School of Environment 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 Bieler School of Environment 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)

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 Bieler School 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).

7.7.7 Joint Honours Component Environment

Adviser

Ms. Kathy Roulet, Program Adviser
 Telephone: 514-398-4306
 Email: 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
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ENVR 203	(3)	Knowledge, Ethics and Environment
ENVR 301	(3)	Environmental Research Design
ENVR 400	(3)	Environmental Thought
ENVR 401	(3)	Environmental Research

And 6 credits of honours research from the following:

Note: you take either ENVR 495D1 and ENVR 495D2 (6 credits over consecutive terms) or ENVR 495N1 and ENVR 495N2 (6 credits over non-consecutive terms).

ENVR 495D1	(3)	Honours Research
ENVR 495D2	(3)	Honours Research
ENVR 495N1	(3)	Honours Research
ENVR 495N2	(3)	Honours Research

Complementary Courses (9 credits)

One of the following Statistics courses or equivalent:

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

And 6 credits chosen with approval of the Program Adviser, at least 3 credits of which must be at the 400 level or higher.

7.7.8 Diploma in Environment

Adviser

Ms. Kathy Roulet, Program Adviser
 Telephone: 514-398-4306
 Email: kathy.roulet@mcgill.ca

7.7.8.1 Diploma (Dip.) Environment (30 credits)

The Diploma in Environment is designed for students with an undergraduate degree who wish to enrich or reorient their training, supplementing their specialization with additional undergraduate-level course work in Environment.

The Diploma requires 30 credits of full-time or part-time studies at McGill and is a one-year program if taken full-time.

Students holding a B.Sc. or a B.A. degree or equivalent in good standing will be permitted to register for the Diploma through the Faculty of Agricultural and Environmental Sciences, the Faculty of Arts, or the Faculty of Science, provided they are otherwise acceptable for admission to the University.

Advising Note:

Consultation with the Program Adviser for approval of course selection to meet program requirements is obligatory. All courses must be at the 200 level and above, and completed with a grade of C or better.

Required Courses (18 credits)

The core ENVR courses are offered on both campuses. You should register in Section 001 of an ENVR course that you plan to take on the Downtown campus, and in Section 051 of an ENVR course that you plan to 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 (12 credits)

12 credits of complementary courses are selected as follows:

3 credits - selected with the approval of the Program Adviser in an area outside of the student's previous degree (e.g., those with a B.A. or equivalent degree must take at least 3 credits in the natural sciences; those with a B.Sc. or equivalent degree must take at least 3 credits in the social sciences). A list of Suggested Courses is given below.

9 credits - in an area of focus chosen by the student with the approval of the Program Adviser. At least 6 credits must be taken at the 400 level or higher. A list of Suggested Courses is given 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. You are urged to prepare your program of study with this in mind.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of the Program Adviser.

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
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 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 307	(3)	Globalization
SOCI 365	(3)	Health and Development
SOCI 366	(3)	Neighborhoods and Inequality
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 504	(3)	Planning for Active Transportation
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning
WCOM 314	(3)	Communicating Science

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both; you may take ENVB 529 or GEOG 201, but not both; you may take one of BREE 217, CIVE 323 or GEOG 322; you may take BIOL 308 or ENVB 305, but not both; you may take BIOL 465 or WILD 421, but not both; you may take COMP 202 or COMP 204, but not both; you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
BIOL 240	(3)	Monteregian Flora
BIOL 305	(3)	Animal Diversity
BIOL 308**	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 342	(3)	Global Change Biology of Aquatic Ecosystems
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 432	(3)	Limnology
BIOL 436	(3)	Evolution and Society
BIOL 465**	(3)	Conservation Biology
BREE 217**	(3)	Hydrology and Water Resources
BREE 322	(3)	Organic Waste Management
BREE 327	(3)	Bio-Environmental Engineering
BREE 518	(3)	Ecological Engineering
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 281	(3)	Inorganic Chemistry 1

CIVE 225	(4)	Environmental Engineering
CIVE 323**	(3)	Hydrology and Water Resources
CIVE 550	(3)	Water Resources Management
COMP 202**	(3)	Foundations of Programming
COMP 204**	(3)	Computer Programming for Life Sciences
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 529**	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
ENVR 422	(3)	Montreal Urban Sustainability Analysis
EPSC 201**	(3)	Understanding Planet Earth
EPSC 233**	(3)	Earth and Life History
EPSC 549	(3)	Hydrogeology
ESYS 301	(3)	Earth System Modelling
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)	Remote Sensing for Earth Observation
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](#). In addition, the Bieler School of Environment offers the Montreal Urban Sustainability Experience (M.U.S.E.), a 6 credit field program offered in Montreal. For further details, see: mcgill.ca/environment/montreal-urban-sustainability-experience.

8 Faculty of Law

8.1 Legal Education at McGill

We do legal education like nobody else

Proudly bilingual; rigorously pluralistic, the McGill Law program breaks the mold for legal education in our fast-paced, globalized world. No other law program reaches further. The McGill program ensures that students gain a cosmopolitan understanding of the law that is not confined to specific jurisdictions or legal traditions.

Legal education at McGill explores concepts and ideas through a comparative, integrated lens that is unique around the world.

The McGill curriculum features multiple opportunities for problem-based learning, translation of knowledge into action, and the development of skills that are critical to engaged, effective, and enlightened jurists.

An integrated education

1. designed to work across the traditional boundaries of first-year coursework
2. offered in French and English
3. that builds on an expertise in the civil law and common law, broadened to include other legal traditions, including better understandings of Indigenous law, as well as cutting-edge scholarship in alternate dispute resolution

A focus on problem-solving

1. Students work in small groups to tackle issues in legal methodology and ethics, empirical research, and policy analysis
2. A revised semester timetable makes space for one-week intensive teaching on specialized topics during the fall and winter terms

Innovative pedagogy that flips the script and

1. allows you to take the lead in your own education
2. uses technology in modernized classrooms to enhance participation and critical reflection

The original and critical vision that characterizes legal education at McGill is a springboard for those whose ideas will inspire legal leadership for global challenges.

Above all, the Faculty prides itself on developing agile thinkers, conscientious citizens, and globally oriented, forward-looking jurists for the 21st century.

McGill Law. It's a world class move.

8.1.1 Location

Chancellor Day Hall
 3644 Peel Street
 Montreal QC H3A 1W9
 Canada
 Telephone: 514-398-6666
 Website: mcgill.ca/law

Undergraduate Admissions

3644 Peel Street, Room 418
 New Chancellor Day Hall
 Montreal QC H3A 1W9

Telephone: 514-398-6602
 Email: admissions.law@mcgill.ca

Graduate Admissions

3644 Peel Street, Room 406
 New Chancellor Day Hall
 Montreal QC H3A 1W9
 Telephone: 514-398-6635
 Email: grad.law@mcgill.ca

8.1.2 Administrative Officers and Staff

Faculty Administrative Officers

Robert Leckey	Dean
Rosalie Jukier	Associate Dean (Academic)
Andrea Bjorklund	Associate Dean (Graduate Studies)
Daniel Weinstock	Associate Dean (Research)
Kimberly Lee-Louis	Assistant Dean (Inclusion - Black and Indigenous Flourishing)
Andra Syvänen	Assistant Dean (Admissions and Recruitment)
Brittany Williams	Manager (Student Affairs)
Brian Peebles	Assistant Dean (Strategic Planning)
Debbie Carlone	Manager, Faculty Administrator and Human Resources Advisor
Daniel Boyer	Head Librarian

Faculty Administrative Staff

Margaret Baratta	Administrative Assistant & Building Director
Lindsay Wills	Admissions Officer
Sophie Roy-Lafleur	Career Development Office, Director
Karell Michaud (<i>On leave</i>)	Communications Officer
Claire Loewen	Interim Communications Officer
Heather Powers	Development, Director
Pina Ricco	Academic Affairs Administrator
Gabriel Sales	Research Administrator
Maria Marcheschi	Special Events and Alumni Relations Administrator
Giosina Rota	Student Affairs Consultant
Sarah Despres-Kaba	Advancement Officer
Victoria Allin	Student Affairs Office
Lysanne Larose	Web Communications Editor
Kelly Hanley	Senior Admissions Coordinator
Ennea Currie	Admissions Coordinator
Bianca Bourgeois	Senior Administrative and Student Affairs Coordinator (Graduate Studies)
Pasqualina Chiarelli	Student Affairs Coordinator (Graduate Studies)
Claudine Bordenave	Career Development Office, Associate
Laura Blazs	FST Manager
Sabrina Falco	Accounts Administrator
Katarina Daniels	Liaison Librarian

Faculty Administrative Staff

Manon Berthiaume	Senior Administrative Coordinator (Crépeau Centre)
Maria D'Amico	Senior Administrative Coordinator (IASL)
Tena Groot	Human Resources Coordinator
Libby Parker	Administrative Coordinator
Jane Yee	Workday Local Time Keeper
Lianne Barski	Senior Administrative and Student Affairs Coordinator
Nabil Saliba	Student Affairs Coordinator
Astrid Tchakmaktchian	Student Affairs Consultant
Ariel Swan	Development Officer
Julie Timmins	Advancement Officer
Melissa Caruana	Coordinator, Career Development Office
Eric Greenberg	Advancement Officer
Staci Angelis	Advisor, Career Development Office
Jennifer Scissons	Senior Administrative Coordinator to the Dean
Shrabani Debroy	Wellness Advisor
Heleen Loohuis	Wellness Advisor
Silvana Solitiero	Senior Administrative and Student Affairs Coordinator (Graduate Studies)
Sharon Webb	Administrative Coordinator (CHLRP/CIPP)

8.1.3 Directors of Institutes and Research Centres**Institute of Air and Space Law**

Paul S. Dempsey	Director Emeritus
Brian Havel (<i>on leave</i>)	Director
Ram Jakhu	Interim Director

Centre for Human Rights and Legal Pluralism

Nandini Ramanujam	Co-Director
Frédéric Mégret	Co-Director

Centre for Intellectual Property Policy

Richard Gold	Director
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Centre for Medicine, Ethics and Law

Margaret A. Somerville	Founding Director Emerita
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Centre for Research in Air and Space Law

Brian Havel (<i>on leave</i>)	Director
Ram Jakhu	Interim Director

Paul-André Crépeau Centre for Private and Comparative Law

Mark Antaki	Director
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8.1.4 Faculty Members

Teaching Faculty

Wendy Adams (*on leave*); Kirsten Anker; Mark Antaki; Jonas-Sébastien Beaudry (*joint appt. with Institute for Health and Social Policy*); Andrea Bjorklund; Adelle Blackett; Angela Campbell; Allison Christians; Ignacio Cofone; François Crépeau; Helge Dedek; Jaye Ellis; Yaëll Emerich; Omar Farahat; Evan Fox-Decent; Fabien Gélinas; Richard Gold; Priya Gupta; Brian F. Havel (*on leave*); Alicia Hinarejos; Ram Jakhu; Richard A. Janda; Sébastien Jodoin; Mugambi Jouet; Rosalie Jukier; Lara Khoury; Alana Klein; David Lametti (*on leave*); Robert Leckey; Marie Manikis; Frédéric Mégret; Aaron Mills; Pierre-Emmanuel Moysse (*sabbatic leave*); Victor Muñoz-Fraticelli (*joint appt. with Political Science*) (*sabbatic leave*); Vrinda Narain; Joshua Nichols; Tina Piper; Johanne Poirier; René Provost; Nandini Ramanujam; Sarah Riley-Case; Darren Rosenblum; Geneviève Saumier (*sabbatic leave, Jan. 1, 2022-Jun. 30, 2022*); Colleen Sheppard; Kerry Sloan; Lionel Smith; Stephen A. Smith; Shauna Van Praagh; Catherine Walsh; Daniel Weinstock; Peer Zumbansen.

Adjunct Professors

Kenneth Atlas; Marc Barbeau; Carol Cohen; Martine De Serres; Marie Deschamps; Jeffrey Edwards; Morris Fish; P. Paul Fitzgerald; Clement Gascon; Marc Gold; Sunny Handa; Donal Hanley; Andrew Harakas; Patrick Healy; Robert Israel; Nicholas Kasirer; David Howes; Marc Lemieux; Peter Nesgos; Louise Otis; Alexander Pless; Robert Raizenne; John Saba; Francis P. Schubert; Peter Van Fenema; Ludwig Weber; James Woods.

Emeritus and Retired Professors

Jean-Guy Belley; Madeleine Cantin Cumyn; Irwin Cotler; Armand de Mestral; Paul D. Dempsey; Jane Matthews Glenn; Pierre-Gabriel Jobin; Dennis R. Klinck; Stephen A. Scott; Margaret A. Somerville.

8.1.5 Law Library Staff

Law Library Staff

Daniel Boyer	Head Librarian
Katarina Daniels	Liaison Librarian
Sonia Smith	Liaison Librarian
Ana Rogers-Butterworth	Liaison Librarian
Lisa Barrett	Senior Circulation Clerk
Mila Bozic Erkie	Senior Circulation Clerk
Brock Cummings	Senior Circulation Clerk
Elizabeth Gibson	Library Supervisor
Ramon Lasso	ILL/Documentation Technician

8.2 Faculty Governance and Academic Regulations

As the delegate of the Senate of McGill University, the Faculty Council is the principal academic policy-making body within the Faculty of Law. It has either direct or advisory authority over all matters relating to undergraduate admissions, curriculum, examinations, graduate studies, library, and staff appointments.

8.2.1 Faculty Council

The Faculty Council operates through a committee system and meets on average once per month during teaching terms.

Faculty Council is composed of all members of the full-time teaching staff and undergraduate and graduate students representing one-fifth of its total membership. When considering the admission, evaluation, and Standing of students, and when dealing with the recruitment and terms of contract of members of the academic staff, the Faculty Council is composed solely of members of the full-time teaching staff.

8.2.2 Outline of Academic Regulations

This publication and the Faculty Regulations in force govern students registered in the Faculty of Law during the 2019–2020 academic year. As well, students are subject to changes published in this publication from time to time within the Faculty before Fall registration.

These Regulations, and all others under which the curriculum is administered, are subject to change at any time.

8.2.2.1 Academic Standing

Academic Standing is determined under a credit system as set out in the Faculty Academic Regulations contained in the *Registration Materials* published each academic year. This publication, which is posted on the Student Affairs Office website, mcgill.ca/law-studies/courses, prior to registration opening on Minerva in May, contains the detailed Regulations for the McGill Program. The Faculty is also governed by the University Code of Student Conduct and Disciplinary Procedures, found in McGill's *Handbook on Student Rights and Responsibilities* available at mcgill.ca/students/srr/.

8.2.2.2 Academic Requirements

To be eligible for a Faculty degree, you must complete the required number of credits for that degree within five years of your initial registration in the program, unless you have been granted a leave of absence by the Dean or the Dean's delegate (Regulation 5), or unless you have received permission to pursue your degree on a part-time basis (Regulation 53).

You are not permitted to be enrolled concurrently in a Faculty of Law program and the professional training program of any Bar, whether this program consists of a course of lectures or a period of articling (Regulation 4).

Full-time students at the Faculty must register for at least 12 credits each term, with the exception of your final term, if fewer credits are required to obtain your degree (Regulation 3). You will not receive credit for any course taken to fulfil the requirements of any other degree (Regulation 10).

You should anticipate at least two hours of directed study for every hour of lecture. In addition, you are obliged to write essays, attend seminars, participate in the Legal Methodology Program, and fulfil all other Faculty requirements. You are expected to devote your whole time to your legal studies, and must not undertake other studies during the academic session without prior approval of the Dean or the Dean's delegate.

The Faculty generally follows the University Examination Regulations, and evaluates all students anonymously (Regulations 19 and 22). Examinations and other assignments may be written in either English or French. Examinations are set in the language in which a course is given, but may contain materials in either French or English (Regulation 20).

If you do not pass a session, you will be required to withdraw from the Faculty, subject to your right to apply for readmission to the Faculty (Regulations 49 and 50). For more information, see mcgill.ca/law-studies/law-student-affairs-office.

8.3 Admission to the Legal Profession

The Faculty's Career Development Office (CDO) endeavours to maintain up-to-date information on Bar admission requirements for jurisdictions of interest to the majority of students graduating from the Faculty. However, it is the student's responsibility to ensure that they have fulfilled all requirements of the Bar to which they are applying, including pre-law educational requirements.

8.3.1 Admission to the Legal Profession: Canada

Information on the following Bars/Law Societies can be obtained by consulting their websites. For information on the National Committee on Accreditation, which oversees the transfer from one provincial bar to another, visit the Federation of Law Societies of Canada's website: www.flsc.ca. Transfer to the Quebec Bar is managed by the *Comités des équivalences*: <http://www.barreau.qc.ca/fr/le-barreau/>

- Barreau du Québec: www.barreau.qc.ca
- Chambre des notaires du Québec: www.cnq.org
- École du barreau du Québec: www.ecoledubarreau.qc.ca
- Law Society of Alberta: www.lawsociety.ab.ca
- Law Society of British Columbia: www.lawsociety.bc.ca
- Law Society of Manitoba: www.lawsociety.mb.ca
- Law Society of New Brunswick: www.lawsociety-barreau.nb.ca
- Law Society of Newfoundland: www.lawsociety.nf.ca
- Law Society of the Northwest Territories: www.lawsociety.nt.ca
- Law Society of Nunavut: www.lawsociety.nu.ca
- Law Society of Prince Edward Island: www.lawsocietypei.ca
- Law Society of Saskatchewan: www.lawsociety.sk.ca
- Law Society of Ontario: www.lso.ca
- Law Society of Yukon: www.lawsocietyyukon.com
- Nova Scotia Barristers' Society: nsbs.org

8.3.2 Admission to the Legal Profession: The United States

The J.D. degree is an approved law degree in some U.S. jurisdictions (i.e., NY and MA), and is accepted as the equivalent of a degree in law from an accredited U.S. law school in those jurisdictions. This approval means that McGill graduates may proceed through the Bar admission process in those jurisdictions in the same way as their U.S. counterparts, subject to a "Foreign Legal Education Evaluation" process for the New York Bar.

You can obtain information on the Bar examinations of New York and Massachusetts by consulting the following websites:

The Massachusetts Board of Bar Examiners: <http://www.mass.gov/orgs/massachusetts-board-of-bar-examiners>.

The New York State Board of Law Examiners: www.nybarexam.org.

In addition to requiring a recognized law degree, some states require specific pre-law studies in order for a candidate to be eligible to sit state Bar exams. Students contemplating practice in the United States should ensure as early as possible that they will meet the Bar admission requirements of the jurisdiction in which they intend to practise. Further information on a number of jurisdictions is available in the Career Development Office's online resources.

8.3.3 Language Requirements for Professions

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

8.4 Career Development Office

The programs offered by the Faculty of Law prepare students for a wide array of careers in the practice of law and related fields. To enable its graduates to take full advantage of opportunities available to them, the Faculty provides career counselling through its [Career Development Office](#) (CDO). With the assistance of a Career Adviser and an Associate, the Director of the Office—a faculty graduate and lawyer with experience in private practice in Toronto and Montreal and in the provincial public sector—oversees all career development activities, which include assisting students with their search for summer employment and articling positions.

Career development communications, activities, and programs also provide students with information about the various types of career opportunities open to them after graduation.

The CDO also assists employers with their search for candidates by giving them access to [myFuture](#), where they can post positions for free, by organizing on-campus interviews, and by inviting employers to various events.

8.4.1 Resource Centre

The Resource Centre of the Career Development Office (CDO) houses publications related to job search strategies, diversity, employer types, and much more! The CDO also maintains a website full of publications, information, and resources. Students regularly use the online job search tool [myFuture](#) to research employment opportunities in the legal sector and other fields.

Further information is available on the [CDO website](#) and the [myFuture](#) tool.

8.4.2 On-Campus Recruitment

The Career Development Office (CDO; mcgill.ca/cdo) coordinates various recruitment processes throughout the year. Four of these involve On-Campus Interviews (OCIs): one for U.S. employers (August), one for Vancouver and Calgary employers (September), one for Toronto employers (October), and one for Ottawa employers (January). Students can also take part in organized recruitment processes for other major cities in Canada.

Montreal recruitment is called *Course aux stages*. During this recruitment period, local firms conduct interviews at their offices. The CDO provides step-by-step support to participants.

8.4.3 Career Days

The Career Development Office (CDO; mcgill.ca/cdo) organizes six career days annually: one exploring the different career paths a law degree leads to, one for public interest employers from all over the country, one for Ottawa employers, one for Montreal employers, one for Toronto employers, and one for U.S. employers. Several legal employers visit the Faculty of Law to speak to students about the opportunities available at their law firm or government organization. During *Public Interest Career Day*, which is held in November, guest speakers and panellists discuss opportunities for law graduates in various public interest fields.

8.4.4 Training Programs and Publications

The Career Development Office (CDO; mcgill.ca/cdo) provides materials and organizes seminars on how to pursue a career in law and related areas. Individual counselling is provided to assist students in their search for employment. Special newsletters for participants of various organized recruitment processes provide step-by-step tips, reminders, and resources. Students can also request a mock interview to prepare for a meeting with a potential employer.

Furthermore, the CDO is pleased to offer several panel discussions and networking events throughout the year at which practitioners and alumni discuss their area of specialization with students. Through these events and others, the CDO supports and promotes student employment opportunities in Quebec, elsewhere in Canada, and abroad.

The CDO publishes various guides to assist students with their preparations for life beyond the Faculty of Law.

8.5 Nahum Gelber Law Library

The Law Library is a state-of-the-art facility with a collection of over 185,000 volumes and online resources covering Canadian, foreign, and international law. The collection supports the Faculty of Law undergraduate transsystemic program, graduate courses, and the Faculty of Law research centres with particular focuses on air and space law; comparative law; private and public international law; human rights law; intellectual property; and international trade law. The collection also covers mixed jurisdictions, and some aspects of Talmudic and Islamic Law. It also has legal materials from other common law and civil law jurisdictions such as Great Britain, France, and the United States.

The Peter Marshall Laing Special Collections Room houses the Wainwright Collection of French law from the *ancien régime*, and other rare books in Canadian and English Law. Other collections of note include an extensive collection of French legal theses and the John Humphrey United Nations Collection.

The Dobrin-Steinberg Computer Instruction Classroom, when not in use for legal research workshops, may be used by McGill students for personal research. In addition, wireless network access is available throughout the building, as well as colour printers and scanning facilities. Other facilities include six Moot Team Preparation Rooms for the exclusive use of competitive moot teams representing the Faculty of Law, cubicles, carrels, and three group study rooms for use by McGill Law students.

For complete information on the Nahum Gelber Law Library please visit our website: mcgill.ca/library/branches/law.

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.

Further information is available on the [Centre's website](#).

8.6.2 Centre for Intellectual Property Policy

This Centre was founded in 2003 under the auspices of the Faculty of Law. The goal of the Centre is to explore new perspectives on intellectual property.

Researchers affiliated with the Centre come from a variety of disciplines such as law, management, philosophy, ethics, science, and economics. They study how governments, researchers, and industry manage new and old technologies, and balance the concerns of technology users, technology creators, and citizens. The Centre also regularly holds conferences and workshops on a variety of topics related to intellectual property and innovation.

8.6.3 Centre for Research in Air and Space Law

This Centre is the principal research and educational outreach arm of McGill's Institute of Air and Space Law (established in 1951), which provides the core degree-granting educational program. The Centre for Research in Air and Space Law produces research; publishes books and other literature; and offers educational products around the world. Since its birth, the Centre has published numerous monographic studies, symposia proceedings, reports, and books, and has produced workshops, seminars, and conferences in Montreal and various international venues. In recent years, Centre researchers have undertaken studies addressing the following topics:

- International Aviation Policy
- Peaceful Uses of Outer Space
- Assessing Outer Space Security
- Outer Space Resources
- Governance of Commercialized Air Navigation Services
- International Air Carrier Liability

Since 1976, the Centre for Research in Air and Space Law has published the *Annals of Air and Space Law*, a specialized journal devoted to promoting scholarship in the field of air and space law. Published every year as a hardcover book, the *Annals of Air and Space Law* is among the premier periodicals

in its field. The Centre has also published several other books and reports in recent years, and held seminars and conferences in Montreal, Bogota, Dubai, Macau, New Delhi, Brussels, Abu Dhabi, Cologne, Singapore, London, Amsterdam, and Dublin.

Further information is available on the [Centre's website](#).

8.6.4 Paul-André Crépeau Centre for Private and Comparative Law

The Paul-André Crépeau Centre for Private and Comparative Law was founded in 1975 and conducts research in the field of comparative private law, with a special focus on jurilinguistics, i.e., the relationship between law and language. The Centre produces historical and critical editions of the Civil Codes and an ongoing multi-volume Treatise of Quebec Civil Law. The Centre has also published a series of volumes making up the Private Law Dictionary / *Dictionnaire de droit privé*, along with associated bilingual lexicons; these are world-renowned authorities on the vocabulary of the civil law in English and French. The new dictionary project focuses on the law of successions as a continuation of the individual volumes which cover the law of obligations, property, and family. The Centre sponsors the Civil Law Workshops at the Faculty, which are designed to explore the foundations of the civil law tradition and further explore new theoretical understandings of private law, of which many have led to published collections of scholarly texts. It also serves as the focus for research relating to the implications for legal knowledge of the Faculty's ground-breaking program of transsystemism.

Further information is available on the [Centre's website](#).

8.7 Overview of Undergraduate Degrees Offered

Our undergraduate Law program integrates the Civil Law and the Juris Doctor. Consequently, students in the undergraduate program obtain a double degree of Civil Law (B.C.L.) and Juris Doctor (J.D.). 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./J.D. Program

The Faculty of Law's unique integrated program leads to graduation with both civil law and Juris Doctor degrees (B.C.L./J.D.).

McGill Law students are introduced to “transsystemic” teaching in the first year of the program; fundamental concepts of the civil law and Juris Doctor 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 B.C.L./J.D. Program, the Faculty does not permit students to be registered in our B.C.L./J.D. 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/Juris Doctor (B.C.L./J.D.) 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 mcgill.ca/law-studies/undergrad-programs/joint/#MBA.

8.7.3 M.S.W./Law Program

This joint program, Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law/Juris Doctor (B.C.L./J.D.) is offered by the Faculty of Law and the School of Social Work.

Candidates interested in pursuing this program must submit separate applications to the Faculty of Law and to the School of Social Work M.S.W. program. Information about the M.S.W./Law program is available at mcgill.ca/law-studies/undergrad-programs/joint/#MSW.

8.8 Undergraduate Admissions Policy and Application Procedures

In this section you will find information on our admissions policy, requirements, categories of applicants, deadlines, supporting documents for application, and the application procedures.

8.8.1 Admissions Policy

The Faculty's admissions policy is to select applicants who are best suited to studying law in McGill's uniquely comparative, trans-systemic, and bilingual environment. Diversity and excellence are essential to our Faculty. Indeed, our Faculty's excellence is based on its diversity.

Our admissions process is holistic, meaning that reviewers look at all aspects of an application to get a sense of the candidate as a whole. Committee reviewers assess the applicant's academic ability, *linguistic abilities*, personal motivations for studying law, extracurricular, community or professional activities, and references (see *Supporting Documents*) with a view to gaining an understanding of the applicant and what they might contribute to our Faculty and to the study of law generally.

The Admissions Committee is looking for applicants who have the ability to succeed academically in our rigorous academic program, as well as indicators of intellectual curiosity, community engagement, insight (cultural, economic, political, social and otherwise), leadership skills, ability to work with others, openness to diversity, maturity, ethical sense, judgement, and potential for development through opportunity or adversity, among other criteria. We do not use GPA or LSAT cut-offs and we do not have quotas for categories of applicants.

We seek to create a diverse learning community drawn from across Quebec, Canada and beyond, in which there is a wide range of career aspirations, backgrounds and life experiences. We have found year after year that this approach leads to a rich and dynamic learning environment for which McGill Law has become known.

The Faculty of Law is committed to equity and diversity. We welcome applications from Indigenous people, people with disabilities, racialised people, gender non-conforming and trans people, LGBTQ+ people, women, people from an economically disadvantaged background, and others who may face systemic barriers that impact their access to education.

The BCL/JD is a limited enrolment program for which admission is competitive. Each year the Faculty admits approximately 180 new students. The number of applications is approximately 8 times greater than the number of available places. Unfortunately, every year we must refuse many qualified candidates due to lack of space in the program.

Files are reviewed by the Admissions Office and the Faculty's Admissions Committee, which is composed of full-time faculty members appointed by the Dean, two senior law students selected by the Law Students' Association Executive, and the Assistant Dean, Admissions and Recruitment. Files are read by 1-4 file reviewers before a final decision is rendered.

8.8.1.1 Educational Requirements

Candidates must have a minimum of 60 credits of university studies, or a diploma of collegial studies (DCS) from a Quebec College of General and Professional Education (CEGEP), before starting their law studies. Students with a French Baccalaureate from Quebec (*Collège international Marie de France* or *Collège Stanislas*) are also eligible to apply.

While candidates with 60 credits of university studies are eligible to apply to the Faculty of Law, admission to the program is highly competitive. Almost all students admitted in the "University" category will have completed an undergraduate degree before starting our BCL/JD program.

In our holistic file review, there are no minimum thresholds for GPA, LSAT score, nor R-score. While the numerical aspects of the applicant's file are not, in themselves, decisive, students offered admission at McGill Law, nonetheless, tend to have outstanding academic records, in addition to their other qualities.



Note: Candidates admitted directly from CEGEP or a Quebec French Baccalaureate who are interested in practising in the United States should be aware that bar admission requirements in a number of states include studies at the university level before studying law.



Note: Applicants are not eligible to apply directly from a French Baccalaureate program completed outside of Quebec or from high school. Applicants must meet the eligibility requirement mentioned above.

8.8.1.2 Language Requirements

McGill's integrated program is offered in a bilingual environment. Candidates must demonstrate that they are at least passively bilingual, which means that they have at a minimum an advanced intermediate level of reading and aural comprehension of both English and French. Passive bilingualism is a minimum requirement, not a competitive admissions asset.

The Faculty's policy of passive bilingualism permits students to submit written work, write exams, and ask questions in class in either English or French, regardless of the language of instruction. Students may fulfil their Moot Court requirements in English or French. First-year courses are offered in English and French, and a number of upper-year courses are offered in one language only. While examination questions are set in the language in which a course is given, any examination may contain extensive passages in either French or English. Due to space limitations, it is not always possible for students to be registered in courses given in their preferred language. Almost all first-year students will be registered in at least one class in a French section.

If no evidence of passive bilingualism in French or English appears in the application, the candidate will be refused admission.

To demonstrate that they meet bilingualism requirements, candidates must indicate in their application how they acquired both English and French. They must also submit transcripts from any post-secondary English and French language courses they have taken. The Admissions Committee reviews each candidate's CV and references to take into account work or volunteering experiences in each language.

In order to get a sense of the level of reading comprehension that is expected of McGill Law students, candidates are encouraged to visit the website of the [Supreme Court of Canada](#) and to read judgments in English and in French.

Candidates intending to proceed to the Bar of Quebec or the Board of Notaries of Quebec should carefully review [University Regulations and Resources > Undergraduate > Admission to Professional and Graduate Studies > section 1.10.1: Language Requirements for Professions](#). The Charter of the French Language imposes certain mandatory language requirements on attorneys and notaries who practise in Quebec.

Please visit the Faculty of Law [Eligibility](#) page for more information.

8.8.1.3 Indigenous Applicants

McGill Law is committed to recruiting and supporting Indigenous students and we welcome dialogue with prospective BCL/JD applicants. First Nations, Inuit and Métis persons are strongly encouraged to apply to the Faculty of Law, and are invited to self-identify on their application form.

We do not have a separate applicant category for Indigenous students or applicants from other under-represented groups in view of our overall holistic process. However, self-identification allows McGill to inform Indigenous students of specific services and funding opportunities and to assess our progress in the recruitment and retention of Indigenous students. Self-identification includes 'Status,' 'Treaty,' 'Registered,' 'Non-Status,' and 'Non-Registered' Indigenous persons.

Linguistic Support

We acknowledge that our bilingualism admission requirement may represent an added challenge for some Indigenous applicants for whom English or French may be their third language, and potentially perceived as a colonizing influence. Applicants are encouraged not to exclude themselves from applying on linguistic grounds, and are encouraged to speak with us regarding any concerns on this point. Financial support is available to admitted Indigenous candidates who wish to improve their abilities in English or French before starting the program and to continue to address a relative weakness in English or French during legal studies here. This program is generously supported by the McCarthy Téroult Fund for Language Training. Please contact us to find out more!

Indigenous Student Financial Assistance

McGill has established a [funding program for Indigenous students](#), made possible in part by Indspire, an Indigenous-led registered charity that invests in the education of Indigenous peoples of Canada.

Additional Documentation for Indigenous Applicants

We recognize that Indigenous peoples are distinct from other equity-seeking groups in light of the historical and structural effects of colonialism, and we are sensitive to the varied ways in which Indigenous peoples are affected. For this reason, we are interested in understanding Indigenous applicants' connection to community, or if this connection does not yet exist, the kind of connections the Indigenous applicant would like to build with Indigenous communities in relation to their law school experience.

Indigenous applicants who have self-identified on the application form are required to upload additional documentation to support their connection to an Indigenous community. This documentation should include a statement, separate from the Personal Statement, where you can elaborate on your current connection to the Indigenous community and how this may have affected your educational path and goals. If a connection to the Indigenous community does not exist, we invite you to describe your aspirations for legal education as it relates to the Indigenous community. You may support your statement with documentation indicating your connection to an Indigenous community.

This additional documentation will allow the Admissions Committee to incorporate relevant context in the holistic admission evaluation process and to take into consideration the experiences unique to Indigenous applicants.

Indigenous Research Opportunities

McGill offers Indigenous students the opportunity to study and complete research with a wide range of legal scholars in English and French. The Faculty is host to a vibrant Indigenous Law Association and the [Aboriginal Human Rights Initiatives](#). McGill also gives Indigenous students the possibility to acquire practical experience working at the Legal Clinic at Kahnawà:ke, to participate in the Faculty's L.E.X. (Law-Éducation-Connexion) program with the Kahnawà:ke Survival School, as well as the chance to participate in the national Kawaskimhon Moot or to complete a Minor at McGill in Indigenous Studies. Students can apply to partake in a term away at the [Indigenous Peoples Law & Policy Program at the University of Arizona](#), and the [Intensive Program in Aboriginal Lands, Resources and Governments at York University's Osgoode Hall Law School](#).

Indigenous students may be eligible for numerous sources of [financial support](#).

First Peoples' House

McGill's [First Peoples' House](#) provides a sense of community and a voice for Indigenous students who have left their communities to study at McGill. A "home away from home", First Peoples' House offers a mentorship program, computer facilities, guest lectures, elder visits, academic counselling, an ever expanding resource centre, as well as student housing.

Indigenous Law Centre Programming

The [Indigenous Law Centre](#) at the University of Saskatchewan offers a curriculum and programming that aims to facilitate access to legal education for Indigenous peoples, to promote the development of the law and the legal system in Canada in ways which better accommodate the advancement of Indigenous peoples and communities, and to disseminate information concerning Indigenous peoples and the law. We encourage all incoming Indigenous students to explore the opportunities available at the Indigenous Law Centre before beginning their legal studies.

8.8.1.4 Honesty and Integrity of Applicants

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 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.

8.8.2 Application Process for BCL/JD Degree Program

Law at McGill is a limited enrolment program. Apply as early as possible and ensure that we have received all required supporting documents on or before the appropriate deadline. Files are reviewed only when complete.

8.8.2.1 Online application

Candidates must apply to the BCL/JD program online. The [online application](#) is available as of September 1. In order to avoid unnecessary processing delays, please read the application instructions carefully. **Please email the Law Admissions Office at the Faculty of Law if you are unable to apply online (transfer applicants).**

Once you have applied, an acknowledgment notice will be sent to the email address indicated on your application within 48 hours. If you have not received your acknowledgment notice within 48 hours following the submission of your application, you should contact the Admissions Office at the Faculty of Law admissions.law@mcgill.ca.

8.8.2.2 Verifying the status of your application via Minerva

Your acknowledgment notice will include your McGill Identification (ID), and a password that you will need to log in to the [Minerva](#) website, where you can monitor the status of your application. As your supporting documents are received and recorded, consult the admissions checklist to see which documents (if any) are missing, incomplete, or illegible. Consult your admissions checklist regularly as new items might be requested to complete your file. It is important to respond to requests for further documentation in a timely manner.

You are responsible for monitoring the status of your application on Minerva. A status of “Items outstanding” means that your application is incomplete. **If your application remains incomplete after the deadline for submission of supporting documents, your application will be cancelled.** However, your application will not be cancelled if only your LSAT score is missing after the deadline. If you plan on writing the LSAT, your application status will remain “Items outstanding” until we get your score, after which your file will be reviewed by the Admissions Committee.

An indication of “Ready for review” means that your file is complete and/or under review by the Admissions Committee. Your status will remain “Ready for review” until a final decision is rendered.

During peak periods (i.e., close to deadlines), we receive a high volume of documents. At those times, there may be a delay of up to 48 hours between when a document is received and when it is verified on Minerva. Taking this delay into consideration, please contact the BCL/JD Admissions Office only if your file remains incomplete 48 hours past the deadline.

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 Admission decisions

Applicants receive an email from the Admissions Office when a decision has been rendered. Final decisions are available in Minerva. Decisions are never disclosed over the phone.

Every effort is made to inform candidates of the decision at the earliest possible date. However, the review process is labour-intensive and may extend into June. Final decisions on waitlisted applicants 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 BCL/JD program. For current fee information, please visit the [Student Accounts](#) website. A credit card (Visa, MasterCard, or American Express only) is required to complete the online application form. McGill's highly secured e-payment service minimizes cardholder risk. Your credit card information is passed instantly to the Moneris payment gateway and is not stored at McGill. Moneris handles 80% of all credit card transactions processed in Canada.

8.8.2.6 Applicant Categories

Applicant categories leading to BCL/JD degree (September entrance only)

- [section 8.8.2.6.1: University Applicants](#)
- [section 8.8.2.6.2: Mature Applicants](#)
- [section 8.8.2.6.3: CEGEP and Quebec French Baccalaureate \(Collège international Marie de France and Collège Stanislas\) Applicants](#)
- [section 8.8.2.6.4: Advanced Standing Students](#)
- [section 8.8.2.6.5: Transfer Students](#)

Applicant categories not leading to BCL/JD degree (September or January entrance)

- [section 8.8.2.6.7: Visiting Students \(Letters of Permission\)](#)
- [section 8.8.2.6.8: Incoming Exchange Students](#)
- [section 8.8.2.6.6: Comité des équivalences](#)
- [section 8.8.2.6.9: Special Students](#)

8.8.2.6.1 University Applicants

A University applicant to McGill's Faculty of Law must be on track to complete their degree or have a minimum of 60 credits of undergraduate studies before starting their law studies. This category includes applicants who, at time of registration, will have completed more than 30 credits in addition to a Diploma of Collegial Studies (DCS).

While candidates who have completed 60 credits are eligible to apply to the BCL/JD program, applicants who are not on track to complete their degree before starting their law studies are unlikely to be offered admission.

8.8.2.6.2 Mature Applicants

Mature applicants are those who have interrupted their formal education for a minimum of five years, which do not have to be consecutive. Candidates who qualify as Mature must apply in this category. There is no predetermined number of Mature candidates admitted in a given year. Mature applicants are evaluated according to the same criteria and standards of excellence as any other applicant, with particular attention being paid to professional activities. Mature applicants must meet the educational requirements, set for all candidates, as outlined in the Education requirements page. Mature applicants who are regarded as potentially admissible following a review of their file may be required to attend an interview.

8.8.2.6.3 CEGEP and Quebec French Baccalaureate (Collège international Marie de France and Collège Stanislas) Applicants

Candidates may apply on the basis of a Diploma of Collegial Studies (DCS) from a CEGEP, or a Quebec French Baccalaureate (QFB). This category includes candidates who will have completed up to 30 credits of university studies in addition to the DCS or QFB at the time of registration.

Only candidates completing French Baccalaureate Programs in Quebec at Collèges international Marie de France and Stanislas are eligible to apply. Any French Baccalaureate programs from outside Quebec do not meet the eligibility requirements. Candidates who will have completed a French Baccalaureate or an International Baccalaureate Diploma outside the province of Quebec, must have completed a minimum of two years of full-time university studies (60 credits), at the time of registration, to be eligible to apply to our program.

- CEGEP/QFB candidates are not eligible to apply to the joint degree programs.
- CEGEP/QFB candidates who are regarded as potentially admissible following review of their file are required to attend an interview.
- Candidates admitted directly from CEGEP or a Quebec French Baccalaureate, who are interested in practicing in the United States, should be aware that Bar admission requirements in a number of US states requires studies at the university level before studying law.

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 BCL/JD 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 BCL/JD 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 graduate from the integrated BCL/JD program. In most cases, Advanced Standing students will be required to complete the required private law courses that are taught transsystemically – Property, Contractual Obligations and Extra-Contractual Obligations/Torts – in order to meet McGill's degree requirements. It is not possible to obtain either the BCL or the JD 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 BCL/JD 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 (roughly 2.5 years). The Associate Dean (Academic) determines credit for previous studies. In most cases, Transfer Students must take the required private law courses that are taught transsystemically – Property, Contractual Obligations and Extra-Contractual Obligations/Torts—in order to meet McGill's degree requirements. Candidates will not receive credit for courses in property, 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 to transfer to McGill.
- The online application is available from September 1 until November 1 for this category, even though the deadline for submitting an application is May 1. To submit a paper application under this category after November 1, please contact admissions.law@mcgill.ca.

8.8.2.6.6 Comité des équivalences

The Faculty accepts applications from candidates who hold a law degree from a Canadian or foreign university recognized by McGill and who are seeking to fulfil the requirements of the *Comité des équivalences* of the *Barreau du Québec* or of the *Chambre des notaires*, in order to practice in Quebec. Successful applicants must have the final decision of the *Comité des équivalences* of the *Barreau* or the *Chambre des notaires* in hand at the time of registration. Candidates must submit their equivalency application from the *Barreau du Québec* or the *Chambre des notaires* before our deadline for supporting documents.

Please note that:

- This is a **non-degree program**. Courses taken by *Comité des équivalences* students cannot be credited toward a McGill law degree. Students wishing to obtain the BCL/JD degrees should apply under the [section 8.8.2.6.4: Advanced Standing Students](#) category.
- The Faculty does not consider candidates applying to fulfil the requirements of the National Committee on Accreditation.

8.8.2.6.7 Visiting Students (Letters of Permission)

Students who have completed two years of studies at another law faculty who wish, for academic or personal reasons, to spend a term at McGill may be admitted as a Visiting Student. The Faculty endeavours to accommodate qualified students who are in good standing in their own faculties, where student numbers at McGill permit.

Students from other law faculties who would like to attend McGill as a Visiting Student must apply through the Admissions Office. Their application must include a Letter of Permission from their home university. The Director (Student Life and Learning) makes decisions on these applications. Accepted students must arrange their academic program with the Director (Student Life and Learning).

- This is a **non-degree program**. Courses taken by Visiting Students cannot be credited toward a McGill law degree.

8.8.2.6.8 Incoming Exchange Students

Students registered in degree programs in law at universities that have an official exchange agreement with McGill University or with the Faculty of Law may apply as Exchange students. In addition, McGill participates in a number of exchange programs through BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ). [McGill's exchange partners](#) are listed on McGill University's website.

Candidates in this category must fill out the online application form. There is no application fee.

Exchange students are selected and officially nominated by their home universities. Please note that home university internal application deadlines may vary. McGill considers applicants on an individual basis; the minimum entrance requirement is generally a cumulative B average or its equivalent. Decisions on applications for exchange are made by the Director, Student Life and Learning at the Faculty of Law. Admission decisions on exchange applications are final.

The Faculty has a limited number of places for Exchange students, and entrance into courses which have enrolment limits or require the permission of the instructor is not guaranteed.



Note: This is a **non-degree program**. 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 Associate Dean (Academic) and the course instructor. Such students need not fill out the online application. The [Application to register for law courses for McGill students](#) form is available on the [Law Student Affairs Office website](#).
- Students registered in other Quebec universities who wish to take certain courses within the Faculty must apply through BCI (*Bureau de coopération interuniversitaire*, previously known as CREPUQ). Such students need not fill out the online application.
- This is a **non-degree program**. Courses taken by Special Students will not be credited toward a McGill law degree.
- Students wishing to obtain a McGill law degree and students recently refused admission to a degree program in the Faculty of Law will not be admitted as Special Students.
- The Faculty does not consider Special Student applications from candidates seeking to fulfil the requirements of the National Committee on Accreditation.

The list of courses offered by the Faculty of Law is available from the Student Affairs Office website at mcgill.ca/law-studies/courses/current.



Note: All mandatory undergraduate courses for the BCL/JD program (see list below) and graduate courses (600 level) are **not** open to Special Students:

- LAWG 100D1/D2 Contractual Obligations
- LAWG 101D1/D2 Extra-Contractual Obligations/Torts
- LAWG 102D1/D2 Criminal Justice
- LAWG 110D1/D2 Integration Workshop
- LAWG 210 Legal Ethics and Professionalism
- LAWG 220D1/D2 Property
- PRAC 200 Advocacy
- PROC 124 Judicial Institutions and Civil Procedure
- PUB2 101D1/D2 Constitutional Law

- PUB3 116 Foundations

In addition, the following undergraduate complementary courses are **not** open to Special Students:

- PROC 200 Advanced Civil Law Obligations
- PRV3 200 Advanced Common Law Obligations

8.8.2.7 Application Deadlines for Law Undergraduate Programs

The online application is available as of **September 1**. Deadlines vary by applicant category. Applicants must take the time to identify the category in which they must apply. Applicants are responsible for ensuring that the online application is completed by the deadlines indicated below and that all supporting documents are uploaded via *Minerva* by the deadlines listed below. Instructions on uploading documents can be found at [section 8.8.2.8: Application Supporting Documents](#). With the exception of references (which must be submitted in accordance with specific instructions for referees) and some transcripts, all supporting documents **must** be uploaded via *Minerva*. We **strongly encourage** emailing rather than mailing references.

Deadlines must be respected. Late applications are not accepted. There are no exceptions. Applicants are strongly encouraged to apply and submit all required supporting documents as early in the process as possible and in advance of their relevant deadlines.

Incomplete applications will not be circulated to the Admissions Committee. Incomplete applications will be cancelled the day following the supporting document submission deadlines.

Please refer to [section 8.8.2.6: Applicant Categories](#) in order to determine which deadline applies to you.



Note: First-year, Transfer, and Advanced-Standing students may only enter the program in September.

First Year (Fall)	Online Application Deadlines	Supporting Document Deadlines
University	November 1	November 8
Mature	November 1	November 8
CEGEP/Baccalaureate (<i>Collège international Marie de France</i> and <i>Collège Stanislas</i>)	March 1	March 7
Applicants to Upper Years	Online Application Deadlines	Supporting Document Deadlines
Advanced Standing (Fall)	November 1	January 15
Transfer (Fall)	May 1	June 15
<i>Comité des équivalences</i> (Fall entrance)	May 1	July 1
<i>Chambre des notaires</i> (Fall entrance)	May 1	July 1
Special (Fall entrance)	August 1	August 8
Visiting (Fall and/or Winter)	May 1	June 15
Incoming Exchange (Winter)	September 15	October 1
Incoming Exchange (Fall)	April 15	May 1
<i>Comité des équivalences</i> (Winter entrance)	October 1	December 1
<i>Chambre des notaires</i> (Winter entrance)	October 1	December 1
Special (Winter entrance)	December 1	December 8

8.8.2.8 Application Supporting Documents

Applicants **must upload** supporting documents via *Minerva* after having completed the online application (after having received the acknowledgment notice via email). Not all documents may be uploaded via *Minerva*. See [section 8.8.2.8.1: Uploading supporting documents](#) below.

Supporting documents required for all applicant categories (unless otherwise indicated):

- [section 8.8.2.8.3: Transcripts](#)
- [section 8.8.2.8.4: Personal Statement](#)
- [section 8.8.2.8.6: CV](#)
- [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 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
CV	Updated version accepted
Letter of extenuating circumstance (if applicable)	One

Please see the instructions at 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 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
Email: admissions.law@mcgill.ca
Website: mcgill.ca/law/bcl-jd

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 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. If your institution offers the option of sending official e-transcripts to McGill, the email address to use is: 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 third party service provider (i.e., Parchment, NSC, Digitary).

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:** Transcripts for studies at McGill are obtained by the Admissions office directly from McGill's Enrolment Services. Applicants who participated in an exchange during their program at McGill must submit a transcript for their exchange grades.
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. 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 750 word essay referred to as a Personal Statement.

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?

The Admissions Committee is interested in hearing why you want to study law, why you are interested in McGill in particular, and what you will bring to our learning community. The Committee looks 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.

We strongly encourage applicants belonging to an equity-deserving group to include information in their Personal Statements on how their personal circumstances, lived experience, work, community involvement, and extra-curricular activities relate to their desire and preparation to study law at McGill University.

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

Read our mcgill.ca/law/bcl-jd/admissions-guide/admissions-policy Admissions Policy to get a sense of what we look for in our admitted students.

Before writing, reflect critically on your motivations, your interests, and your convictions, and their connection to our program. Do some research on our law faculty and others. Law faculties all tend to have their own strengths and particularities. Doing some research may help you identify and articulate why you are interested in studying at McGill in particular.

The Personal Statement should not be used as a vehicle for narrating or repeating your CV. You have a limited amount of writing space; make it count. Do not repeat aspects of your candidacy that the Committee will see in other documents unless these aspects are directly linked to your interest in studying law at McGill. Be authentic. Be yourself. Don't be afraid to be original, but be careful not to sacrifice substance.

You may submit your Personal Statement in English, French, or both. It is important that you write the statement in whatever of the two language(s) you are most comfortable expressing yourself. It is not recommended to use the Personal Statement as a way to establish your bilingualism unless you are very comfortable expressing yourself in the other language.

Importantly, make sure that your Personal Statement follows our formatting guidelines (see below) and that it has grammatical integrity. Only one submission of the Personal Statement is accepted so it is important to submit the Personal Statement in its final version of both format and substance. Indigenous applicants are invited to submit additional documentation in addition to the Personal Statement. Please see the *Indigenous Applicants* page for more information.

Format

The format of the Personal Statement must adhere to the following basic characteristics:

- Maximum of 750 Words (Include a word count at the end of your Personal Statement.)
- Indicate your name and McGill ID (found in the Minerva acknowledgment notice) at the top right corner of all pages.
- Candidates who have applied to the Faculty in the past must submit a new Personal Statement with any new application. Re-applicants who make no substantive changes to their Personal Statement from one application to the next are unlikely to be viewed as competitive.

8.8.2.8.5 Extenuating Circumstances

If you have experienced serious medical or personal difficulties that have had an impact on your academic performance, you may submit a separate letter to explain the impact of these extenuating circumstances on your academic record. If appropriate, applicants may include supporting documentation such as a medical certificate.

By allowing you to provide an explanation for circumstances beyond your control that may have impacted your academic transcripts, the extenuating circumstances letter will let you to focus your Personal Statement on your motivations for studying law.

8.8.2.8.5.1 Format

Indicate your name, McGill ID (indicated in the acknowledgement notice), and the subject of your letter "Extenuating circumstances" in the top right corner of each page. Note that the extenuating circumstances file should include both the letter and supporting documentation (where applicable) and must respect the maximum file size (3 MB). Only one version is accepted. Additional documents sent by mail will not be considered.

8.8.2.8.6 CV

Applicants are required to submit a CV highlighting:

- academic background and achievements;
- work experience;
- volunteer and community work;
- extracurricular activities, sports, hobbies, and other significant interests.

The CV assists the Admissions Committee in its assessment of a candidate's academic strength, depth of involvement in extra-curricular activities, leadership, and time management skills.



Note: We strongly encourage you to indicate the number of hours worked during your studies, as well as the time commitment involved in your volunteer and community activities. It is in your interest to share with the Admissions Committee your academic and non-academic contributions and distinctions.

Re-application: Candidates who have applied to the Faculty of Law in previous years are required to submit an updated CV.

8.8.2.8.6.1 Format

While you may format your CV in any way that best presents your information, the CV must conform to the two-page maximum. The Admissions Committee will not read beyond the two-page limit.

Please visit the Supporting Documents page of the Faculty of Law Admissions Guide if you wish to use our optional CV template:
mcgill.ca/law/bcl-jd/admissions-guide/supporting-documents

8.8.2.8.7 References

Two (2) references are required. The Admissions Committee **does not accept additional references**.

Applicants must indicate the 2 chosen referees in the first and second fields of the Referee Information section of the online application. Only forms received from the 2 chosen referees will be inserted in the candidate's file. If you wish to make a referee substitution, you may do so until the deadline to submit Supporting Documents. In this case, please advise the Faculty of Law's *Admissions Office* in writing.

Applicants who are students, or who have recently completed programs of study, are expected to provide academic references from current or recent professors or teachers who are familiar with their work. Applicants in the CEGEP and Quebec French Baccalaureate (*Collège international Marie de France* and *Collège Stanislas*) category are expected to submit two references from CEGEP or college professors.

Applicants who are unable to obtain academic references because they are no longer students should submit references from individuals who are well placed to evaluate the applicant's academic abilities such as critical reading, research, and writing; these may be professional references, but ought to be from a person who is in a supervisory position vis-à-vis the applicant.

It is highly recommended that candidates also review the [Instructions and form for referees](#) to think of referees who might best be able to respond to the questions asked.

Personal references are not helpful.



Note: The Law Admissions Office does not contact your referees to solicit their references.

8.8.2.8.7.1 Requirements

The candidate **must send a copy of the Instructions and form for referees** to ensure that the references meet the formatting requirements set out by the Faculty's Admissions Office. The *Instructions for applicant referees and reference form* is available under [Instructions and form for referees](#).

The candidate must send referees the link to [Instructions and form for referees](#). The Admissions Office does not contact referees to invite them to complete the reference form. On the *Instructions for referees* page, referees may download the Reference form which they must complete and email directly to the Admissions Office.

The candidate must inform their referees what category of admission they are applying under. It is the candidate's responsibility to ensure that Reference forms are received by the Admissions Office by the applicable deadline.

The Admissions Office does not confirm receipt of references with the referee via email. Applicants are instead encouraged to verify the status of their documents via their Supporting Documents Checklist in Minerva.

Re-applicants

Re-applicants may choose to either re-use references submitted in previous applications or choose new referees and have them submit new references. If you wish to re-use references, simply fill in the names of the same referees in the on-line application and the references from your previous application will be carried forward.

8.8.2.8.8 Law School Admission Test (LSAT)

Applicants are not required to take the LSAT. However, if a candidate **has taken** or **will be taking** the LSAT, the score will be reviewed by the Admissions Committee. Applicants who have taken or will be taking the test **must** report the date(s) of sitting(s) and provide their LSAT identification number in the appropriate places on the application. They must do so regardless of whether the LSAT may, in their own estimation, strengthen or weaken their candidacy.



Note: Candidates must advise the [Faculty of Law Admissions Office](#) in writing of any change regarding the registration to the LSAT when the change occurs after the submission of the application form. If the candidate is writing the LSAT, the file will be circulated for review by the Admissions Committee only when all pending LSAT results are received.

8.8.2.8.8.1 Consequences of Failure to Disclose

The Faculty of Law may revoke an offer of admission or cancel an application at any time for material misrepresentation, including omissions, in an application. Although the LSAT is not a mandatory element in an application for admission, every applicant who has taken or will be taking it must disclose their LSAT information and failure to do so is a material misrepresentation. The Admissions Office conducts random verifications for LSAT scores throughout the admissions process and a systematic verification with respect to candidates who receive an offer of admission. These verifications have, in the past, resulted in the revocation of offers of admission.

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. We believe it would be disadvantageous to the significant proportion of applicants and admitted students who indicate French as a first language to require, as a matter of eligibility, a test that is offered only in English.

8.8.2.8.8.1.2 Who should take the LSAT?

While it is not required, it may nevertheless be advisable for many candidates to consider writing the LSAT. Admission to McGill's Law program is highly competitive; there are roughly eight times as many applicants as there are available places in the first-year class. Accordingly, candidates are strongly encouraged to apply for admission to a number of faculties of law. Almost all faculties of law outside Quebec (with the exception of the Civil Law program at the University of Ottawa and the French Common Law programs at the University of Moncton and the University of Ottawa) require the LSAT.

The quality of McGill's applicant pool is exceptionally strong. Among admitted students, the average entering GPA is a 3.8 on a 4.0 scale (about an 85% average). Applicants with academic records below this average GPA or percentile are encouraged to consider writing the LSAT.

If you are considering writing the LSAT only to improve your application to McGill Law, it will be important to assess how the results could impact the strength of your application. It is also important to note that if you write the LSAT more than once, McGill Law takes your average score. Based on an average of incoming classes in recent years, the average LSAT result of those entering the McGill program is 162, with 50% of the entering class with a score between 160 and 164, 25% being between 150 and 160, and 25% being above 164.

8.8.2.8.8.1.3 When should I write the LSAT?

Candidates should write the LSAT by November of the year prior to the year for which they seek admission. Candidates who register for the November LSAT should be aware that consideration of their file will be delayed until receipt of the score.

Applications from candidates who register for the January LSAT of the year for which they seek admission will be reviewed by the Admissions Committee only when all required elements, including the January LSAT score, are received. Given the passing of several months since the application deadline,

candidates who register for the January LSAT risk that, by the time the Committee reviews their application, there will no longer be a place to offer even if the Committee wishes to admit.

8.8.2.8.8.1.4 Processing of LSAT Results

The Admissions Office obtains test results directly from the Law School Admission Council (LSAC). Applicants whose service with the Law School Admission Council has expired must reactivate their service in order to enable the Admissions Office to obtain their LSAT score.

McGill University does not administer the LSAT. Applicants who wish to register for the LSAT must do so directly with [Law School Admission Council](#).

For additional information, see the [LSAT section](#) of our FAQ.

8.9 Exchange and Study Abroad Options

For more information, see the [Study Abroad & Field Studies](#) section.

The Faculty of Law has a strong exchange program with partnerships with leading institutions around the world. Approximately 25% of undergraduate law students participate in a study abroad program.

- If you are a **McGill law student** who is interested in participating in an exchange program, consult the [Student Affairs Office website](#).
- If you are a **law student from another institution** who is interested in coming to McGill as part of an exchange program, see the [Incoming Exchange & Visiting Students website](#).

The Faculty of Law also offers students the opportunity to participate in credited summer Human Rights Internships. These internships are coordinated through the Centre for Human Rights and Legal Pluralism (CHRLP) and count for course credit. Details about the Human Rights Internships can be found at [mcgill.ca/humanrights/clinical/internships](#). Please visit [mcgill.ca/cdo](#) for additional information on these opportunities and others.

8.10 Student Activities and Services

The Faculty of Law offers a wide variety of extracurricular activities for students. All are encouraged to participate. Many of these are organized within the Faculty under the auspices of the Law Students Association (LSA). The LSA website provides details regarding various student clubs: [www.lsa-aed.ca](#). For more information on extracurricular activities and organizations, please visit [mcgill.ca/law](#).

8.10.1 Clinical Legal Education at McGill Law

The Faculty of Law is proud to offer a wide variety of Clinical Legal Education (CLE) opportunities that allow students to build valuable skills through experiential learning. B.C.L./J.D. students may take up to **15 "non-course" credits** by participating in the International Human Rights Internship Program, Court Clerkships, Competitive Mooting, the Legal Clinic Course, Law Journals and working as Legal Methodology Tutorial Leaders or Group Assistants for a professor. For additional information about each of the CLE opportunities available, please visit [mcgill.ca/law-studies/bcljd-studies/clinical-legal-education](#).

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, *support is available*. Come by your SAO on the 4th floor or send your availabilities to [sao.law@mcgill.ca](#) to schedule an appointment with the Director (Student Life & Learning) or one of our Student Advisors. For more information, see [mcgill.ca/law-studies/information](#).

If you notice one of your classmates struggling, send them our way.

The SAO also provides academic advising related to registration, program planning, part-time status, leave of absence, exams, major program, honours program, minors, exchange program, clinical legal education, summer courses/programs, exam conflicts and deferrals, and much more.

8.10.2.3 Academic Accommodations

Students may experience personal situations which may prevent them from writing an exam as scheduled, submitting a paper or assignment on time, or completing a course. There may be times when a student may require a more comprehensive academic plan due to illness or a disability. There are policies and procedures in place that provide options to assist a student. These options may include extensions, deferrals, attendance waiver, leave of absence, and/or

part time studies. Requests for academic accommodations are directed to the Student Affairs Office rather than individual instructors. The SAO is available to meet with students to discuss ways to provide some flexibility in the program and to accommodate particular circumstances. Students must be prepared to provide supporting documentation when seeking accommodations. Please contact sao.law@mcgill.ca to arrange an appointment with an advisor. See the [Academic Advising & Support](#) section of our website to find out about your advisors and how they can support you. For more information, see mcgill.ca/law-studies/information/academic-accommodations.

The Office for Student Accessibility & Achievement also works with students who have documented disabilities, mental health issues, chronic health conditions, or other impairments. These may be temporary, permanent, or episodic. We encourage all students to book an appointment with an Access Services Adviser to discuss your barriers and to determine what resources or accommodations will help to make your time at McGill a success.

8.10.2.4 Scholarships and Financial Support

The Faculty of Law offers a number of awards that acknowledge academic achievement and extra-curricular activities. Students are encouraged to review the prizes and scholarships available and direct any questions to the Student Affairs Office. For more information, see mcgill.ca/law-studies/information/funding.

The University's Scholarships and Student Aid Office also offers scholarships and financial aid to undergraduate students currently enrolled in full-time degree programs at McGill. The Scholarships and Student Aid Office administers the University's In-course Financial Aid Program. Financial Aid Counsellors are available to assess student need, decide on suitable aid amounts (non-repayable and payable), and guide students towards other forms of support such as government aid and on-campus work programs. For more information, see McGill's [Scholarships and Student Aid](#) website.

8.10.2.5 Student Wellness

Law students have interests and responsibilities outside of the walls of Chancellor Day Hall. The SAO recognizes this and aims to help you balance your academic self with the other aspects of your life. Learning doesn't just happen in the classroom, but as a lifelong journey beyond law school! To promote wellness at the Faculty, the SAO provides workshops via the Academic Success Series, organizes wellness events throughout the year, and has a [wellness website](#) dedicated to providing resources related to Healthy Body & Mind, Financial Wellbeing, Volunteering, Students with Dependents, and the Mentorship Program.

Students may also reach out to a Local Wellness Advisors situated in the Faculty of Law for support. Local Wellness Advisors (LWAs) are Student Wellness Hub staff who are here to promote awareness, and facilitate prevention, and early intervention in their designated areas. LWAs offer wellness-related programming and will be available for one-on-one single session consultations. LWAs can also provide training to student groups who are interested in developing different skills (i.e., active listening, mental health awareness) and student wellness concerns.

8.10.3 Law Students' Association/Association des étudiant.e.s en droit

The Law Students' Association was created on March 12, 1912. Before that time, law students were members exclusively of the Student Society of McGill University (SSMU). Since then, our membership has grown from 30 to about 600. On May 4, 1992 the LSA was incorporated and continues to play a very active role in student life and student governance at various levels: Faculty, University, Provincial, and Federal. The LSA is the official student organization of the Faculty of Law of McGill University. We aim at representing your voice in the Faculty's administration as well as offering services, organizing events and supporting your projects. If you have any questions or suggestions, please come and see us in the LSA office in the basement of Old Chancellor Day Hall, write us an email, call us, or simply stop us in the halls. The LSA executive has 9 members who represent law students. Every executive member is elected or acclaimed during end-of-year elections.

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: Innocence McGill](#)
- [section 8.10.4.5: L.E.X. Program](#)
- [section 8.10.4.6: McGill Journal of Law and Health](#)
- [section 8.10.4.7: McGill Journal of Sustainable Development Law](#)
- [section 8.10.4.8: McGill Law Journal](#)
- [section 8.10.4.9: McGill Journal of Dispute Resolution](#)
- [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 information, referral and document certification services to the McGill and Montreal communities, with a continuing commitment to meeting the needs of

marginalized groups. Students who have completed their first year at the Faculty of Law are eligible to volunteer, but all McGill students are entitled to receive our services for free! For further information, contact:

Legal Information Clinic at McGill
SSMU Building
3480 rue McTavish, Room 107
Montreal QC H3A 0E7
Telephone: 514-398-6792
Website: licm.ca

8.10.4.2 Contours

Contours is a project based at the McGill Faculty of Law that aims to map and shape the contours of debates, experiences, concerns, and aspirations through written and artistic exploration of the intersection of women and law. Founded in 2012, the student-run magazine is a space for women's voices and an invitation for us all to start a conversation. *Contours* is published annually and welcomes contributions in English and French from students and faculty. Nous accueillons des réponses argumentatives et émotionnelles, théoriques et expérientielles, par écrit et de l'art, parce que nous croyons que toutes ces formes d'expression sont utiles pour développer notre compréhension des intersections entre les femmes et le droit à différents niveaux.

8.10.4.3 Graduate Law Student Association

The *Graduate Law Students' Association* (GLSA) is an Association with an Executive Board composed of five graduate students, who represent all Law graduate students at both the Faculty of Law and the Post-Graduate Students Society of McGill University (PGSS). All graduate students and postdoctoral fellows at the McGill Faculty of Law are members of the GLSA. The GLSA executives aim to improve the graduate student experience at McGill and advance your interests within the Faculty of Law. The GLSA holds seats at many Faculty committees, including Faculty Council, the Graduate Studies Committee and PGSS Council. The GLSA also organizes social, cultural and academic events which provide students the opportunity to relax and socialize outside the classroom, and to discuss their research with their peers.

8.10.4.4 Innocence McGill

Innocence McGill is a legal clinic based at McGill University's Faculty of Law and dedicated to researching and investigating claims of wrongful conviction for serious crimes in Quebec. Founded in 2005, we are a student-led and student-run organization with oversight by our supervising lawyer (a criminal defence attorney in Montreal) and our Faculty Advisor. Our ultimate goal is to help secure the freedom of those who are factually innocent of serious crimes for which they continue to serve sentences in Quebec prisons.

8.10.4.5 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.

8.10.4.6 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.

8.10.4.7 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.

8.10.4.8 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.

8.10.4.9 McGill Journal of Dispute Resolution

The MDJR is a peer-reviewed academic journal founded in 2014 that publishes articles on domestic and international alternative dispute resolution ("ADR").

8.10.4.10 Pro Bono Students Canada

Pro Bono Students Canada (PBSC) was founded in 1996 at the University of Toronto Faculty of Law. Since then, PBSC has expanded to have chapters in all 22 Canadian law schools. Each year across Canada, 1,600 PBSC law student volunteers provide approximately 140,000 hours of free legal services to over 400 public interest and other community organizations, courts and tribunals. PBSC is the only national student program in Canada, the only national pro bono program in the country, and the only national pro bono service organization anywhere in the world. PBSC McGill began in 2000 and has been going strong since then. During the 2012-2013 school year, PBSC McGill had 91 law student volunteers who worked with and provided legal services to 32 different community organizations across Montreal.

8.10.4.11 Quid Novi

Quid Novi is the weekly newspaper of the McGill Faculty of Law, and is published and financially supported by the Law Students' Association. It covers events and legal issues, both inside and outside the Faculty. Content ranges from wit and satire to investigative journalism, from poetry to front-page news stories, and from political commentary to humorous contests.

8.10.4.12 Skit Nite

Skit Nite is an annual theatrical event produced and performed by law students. Comprising humorous vignettes of law school life and musical performances, the show has become the highlight of the Faculty social calendar. The primary purpose of the evening, however, is to raise money for worthy local causes. Skit Nite donates every year to several Montreal charities.

8.11 Scholarships, Prizes, and Student Aid for Undergraduate Students

A complete list of undergraduate scholarships, bursaries, and other forms of financial assistance administered by the Scholarships and Student Aid Office (SSAO) is available in the *Undergraduate Scholarships and Awards Calendar*, which can be accessed at mcgill.ca/studentawards/undergraduate-scholarships-and-awards.

- Information and regulations governing **entrance scholarships** may be viewed at mcgill.ca/studentaid/scholarships-aid/future-undergrads/entrance-scholarships.
- Information and regulations pertaining to **in-course awards** are available at mcgill.ca/studentaid/scholarships-aid/current-undergrads.
- Information regarding the application process for **discretionary prizes and scholarships awarded by the Faculty of Law Prizes and Scholarships Committee** are available at mcgill.ca/law-studies/financial-support/prizes.
- For information on **bursaries and loans**, students should consult mcgill.ca/studentaid/scholarships-aid.
- Details on the **Work Study program** are available at mcgill.ca/studentaid/work-study.

8.12 Undergraduate Program Requirements

The McGill B.C.L./J.D Program

section 8.12.1: Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) Law (105 credits)

section 8.12.2: Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) Honours Law (120 credits)

section 8.12.3: Bachelor of Law (B.C.L.) / Juris Doctor (J.D.) with Major Concentration Law with Major Concentration Commercial Negotiation and Dispute Resolution (123 credits)

section 8.12.4: Bachelor of Law (B.C.L.) / Juris Doctor (J.D.) with Major Concentration Law with Major International Human Rights and Development (123 credits)

section 8.12.5: Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) with Minor Law (with Minor) (123 credits)

section 8.12.7: Bachelor of Law (B.C.L.)/Juris Doctor (J.D.) & Master of Social Work (M.S.W.) (Joint B.C.L./J.D & M.S.W.) Law & Social Work (Non-Thesis) (132 credits)

8.12.1 Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) Law (105 credits)

At the Faculty of Law, students pursue an integrated program of studies which qualifies them for the Bar Admission Programs in all Canadian provinces. The Faculty grants concurrently both its degrees - Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) - to candidates who have successfully completed 105 credits.

Students should consult the Faculty website for updates: <http://www.mcgill.ca/law-studies/>.

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 103	(3)	Indigenous Legal Traditions
LAWG 110D1	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116	(3)	Foundations

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

Any Year

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

BUS2 561	(3)	Insurance
LAWG 506	(3)	Advanced Civil Law Property
PROC 200	(3)	Advanced Civil Law Obligations
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Common Law Immersion Courses

3 credits from the following list of common law courses:

PRV3 200	(3)	Advanced Common Law Obligations
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PRV3 534	(3)	Remedies
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts

Social Diversity, Human Rights and Indigenous Law Courses

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
IDFC 500	(3)	Indigenous Field Studies
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 507	(3)	Critical Race Theory Advanced Seminar
LAWG 509	(3)	Indigenous Law Revitalization
LAWG 562	(3)	Regulating Artificial Intelligence
LAWG 580	(3)	Women and Constitutions
LAWG 582	(3)	Disability Law and Policy
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Principles of Canadian Administrative Law

3 credits from the following courses:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LAWG 561	(3)	Privacy Law
LAWG 581	(3)	Law and Healthcare
LEEL 369	(3)	Labour Law

LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses

46 credits.

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 105-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- writing a term essay under independent supervision, for credit, within the Faculty of Law;
- writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

8.12.2 Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) Honours Law (120 credits)

The B.C.L and J.D. with Honours program is open to students who have completed four terms of study at the Faculty of Law and who, during that time, have maintained a GPA of 3.0. Students must complete 15 credits of Honours Thesis courses in addition to the 105 credits required in the B.C.L and J.D. program. Conditional upon submission and approval of an Honours Thesis, students will be granted a B.C.L. and J.D. with Honours.

Required - Honours Thesis Courses (15 credits)

WRIT 450	(3)	Honours Thesis 1
WRIT 451	(6)	Honours Thesis 2
WRIT 452	(6)	Honours Thesis 3

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations
LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 103	(3)	Indigenous Legal Traditions
LAWG 110D1	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law

PUB2 101D2	(3)	Constitutional Law
PUB3 116	(3)	Foundations

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

Any Year

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

BUS2 561	(3)	Insurance
LAWG 506	(3)	Advanced Civil Law Property
PROC 200	(3)	Advanced Civil Law Obligations
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Common Law Immersion Courses

3 credits from the following list of common law courses:

PRV3 200	(3)	Advanced Common Law Obligations
PRV3 534	(3)	Remedies
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts

Social Diversity, Human Rights and Indigenous Law Courses

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
IDFC 500	(3)	Indigenous Field Studies

LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 507	(3)	Critical Race Theory Advanced Seminar
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Principles of Canadian Administrative Law

3 credits from the following courses:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses

46 credits

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 120-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- writing a term essay under independent supervision, for credit, within the Faculty of Law;
- writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

8.12.3 Bachelor of Law (B.C.L.) / Juris Doctor (J.D.) with Major Concentration Law with Major Concentration Commercial Negotiation and Dispute Resolution (123 credits)

The B.C.L. and J.D. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in Commercial Negotiation and Dispute Resolution is articulated around a synthetic skill set driven by the transversal theme "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 J.D. 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 1A
WRIT 492	(3)	Term Essay 2
WRIT 493	(3)	Term Essay 3
WRIT 494	(3)	Term Essay 1B
WRIT 495	(3)	Term Essay 1C

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 515	(3)	International Carriage of Goods by Sea
CMPL 521	(3)	Trade Regulation
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
LAWG 400	(4)	Secured Transactions
LAWG 511	(1)	Specialized Topics in Law 1

LAWG 512	(1)	Specialized Topics in Law 2
LAWG 513	(2)	Specialized Topics in Law 3
LAWG 514	(2)	Specialized Topics in Law 4
LAWG 515	(3)	Specialized Topics in Law 5
LAWG 516	(3)	Specialized Topics in Law 6
LAWG 517	(3)	Specialized Topics in Law 7
LAWG 518	(3)	Specialized Topics in Law 8
LAWG 521	(3)	Student-Initiated Seminar 1
LAWG 522	(3)	Student-Initiated Seminar 2
LEEL 369	(3)	Labour Law
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV4 500	(3)	Restitution
PRV5 483	(3)	Consumer Law
PUB2 517	(3)	Corporate Taxation

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who take 6 non-law credits as part of their Major concentration may count an additional 6 non-law credits toward their B.C.L. and J.D. program. Students who take 9 non-law credits as part of their Major concentration may count an additional 3 credits toward their B.C.L. and J.D. Students who take 12 non-law credits as part of their Major concentration may not count additional non-law credits toward their B.C.L. and J.D.

Other non-law courses related to Commercial Negotiation and Dispute Resolution not included in these lists may be taken with the approval of the Program Adviser.

Non-Law Courses - Economics

ECON 223	(3)	Political Economy of Trade Policy
ECON 305	(3)	Industrial Organization
ECON 310	(3)	Introduction to Behavioural Economics
ECON 546	(3)	Game Theory

Non-Law Courses - Management

BUSA 395	(3)	Managing in Europe
BUSA 481	(3)	Managing in North America
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 and Competitive Strategy
MGPO 450	(3)	Ethics in Management
MGPO 460	(3)	Managing Innovation

MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization
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 Bachelor of Law (B.C.L.) / Juris Doctor (J.D.) with Major Concentration Law with Major International Human Rights and Development (123 credits)

The B.C.L. and J.D. with a major concentration is open to all students enrolled in the Faculty of Law.

The Major Concentration in 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.

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 J.D. 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 1A
WRIT 492	(3)	Term Essay 2
WRIT 493	(3)	Term Essay 3
WRIT 494	(3)	Term Essay 1B
WRIT 495	(3)	Term Essay 1C

The essay must be written on a subject related to International Human Rights and Development. 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 from non-law courses.

Law Courses

15-21 credits of law courses selected from:

CMPL 516	(3)	International Development Law
CMPL 521	(3)	Trade Regulation
CMPL 533	(3)	Resolution of International Disputes
CMPL 543	(3)	Law and Practice of International Trade
CMPL 546	(3)	International Environmental Law and Politics

CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 511	(1)	Specialized Topics in Law 1
LAWG 512	(1)	Specialized Topics in Law 2
LAWG 513	(2)	Specialized Topics in Law 3
LAWG 514	(2)	Specialized Topics in Law 4
LAWG 515	(3)	Specialized Topics in Law 5
LAWG 516	(3)	Specialized Topics in Law 6
LAWG 517	(3)	Specialized Topics in Law 7
LAWG 518	(3)	Specialized Topics in Law 8
LAWG 521	(3)	Student-Initiated Seminar 1
LAWG 522	(3)	Student-Initiated Seminar 2
PUB2 105	(3)	Public International Law
PUB2 502	(3)	International Criminal Law
PUB2 503	(3)	Comparative Federalism
PUB2 551	(3)	Immigration and Refugee Law

Non-Law Courses

Students may take 6-12 credits of non-law courses. Students who take 6 non-law credits as part of their Major concentration may count an additional 6 non-law credits toward their B.C.L. and J.D. program. Students who take 9 non-law credits as part of their Major concentration may count an additional 3 credits toward their B.C.L. and J.D.. Students who take 12 non-law credits as part of their major concentration may not count additional non-law credits towards their B.C.L. and J.D.

Other non-law courses related to International Human Rights and Development not included in these lists may be taken with the approval of the Program Adviser.

Non-Law Courses - Anthropology

ANTH 212	(3)	Anthropology of Development
ANTH 342	(0)	
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 Courses - Geography

GEOG 200	(3)	Geographical Perspectives: World Environmental Problems
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 408	(3)	Geography of Development

GEOG 410 (3) Geography of Underdevelopment: Current Problems

Non-Law Courses - International Development

INTD 200 (3) Introduction to International Development

Non-Law Courses - Management

MGPO 469 (3) Managing Globalization
 MGPO 475 (3) Strategies for Developing Countries
 ORGB 380 (3) Cross Cultural Management

Non-Law Courses - Political Science

POLI 227 (3) Developing Areas/Introduction
 POLI 243 (3) International Politics of Economic Relations
 POLI 324 (3) Developing Areas/Africa
 POLI 340 (3) Developing Areas/Middle East
 POLI 345 (3) International Organizations
 POLI 351 (0)
 POLI 354 (3) Approaches to International Political Economy
 POLI 362 (3) Political Theory and International Relations
 POLI 474 (3) Inequality and Development
 POLI 522 (3) Seminar: Developing Areas

Non-Law Courses - Sociology

SOCI 254 (3) Development and Underdevelopment
 SOCI 265 (3) War, States and Social Change
 SOCI 370 (3) Sociology: Gender and Development
 SOCI 484 (3) Emerging Democratic States
 SOCI 519 (3) Gender and Globalization
 SOCI 550 (3) Developing Societies

8.12.5 Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) with Minor Law (with Minor) (123 credits)

Required Courses (47 credits)

First Year

The following 33 credits of courses may be taken only in the first year:

LAWG 100D1 (3) Contractual Obligations
 LAWG 100D2 (3) Contractual Obligations
 LAWG 101D1 (3) Extra-Contractual Obligations/Torts
 LAWG 101D2 (3) Extra-Contractual Obligations/Torts
 LAWG 102D1 (3) Criminal Justice
 LAWG 102D2 (3) Criminal Justice
 LAWG 103 (3) Indigenous Legal Traditions

LAWG 110D1	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116	(3)	Foundations

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

Any Year

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

BUS2 561	(3)	Insurance
LAWG 506	(3)	Advanced Civil Law Property
PROC 200	(3)	Advanced Civil Law Obligations
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Common Law Immersion Courses

3 credits from the following list of common law courses:

PRV3 200	(3)	Advanced Common Law Obligations
PRV3 534	(3)	Remedies
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts

Social Diversity, Human Rights and Indigenous Law Courses

Students must take at least 3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law

CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
IDFC 500	(3)	Indigenous Field Studies
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 507	(3)	Critical Race Theory Advanced Seminar
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Principles of Canadian Administrative Law

3 credits from the following courses:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses

46 credits.

Students must take 46 other elective courses offered within the Faculty or approved as credit equivalences in order to complete the 123-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- a) writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- b) writing a term essay under independent supervision, for credit, within the Faculty of Law;

c) writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

Program Requirements

The B.C.L. and J.D. with Minor is open to all students enrolled in the Faculty of Law and allows them to graduate with a minor concentration offered by McGill's Faculty of Arts or a minor offered by McGill's Faculty of Science or a minor offered by McGill's Desautels Faculty of Management for Non-Management students.

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 J.D. with Minor

In addition to the 105 credits needed for the B.C.L. and J.D. 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.

8.12.6 Bachelor of Civil Law Juris Doctor (B.C.L. & J.D) Law (M.B.A.) and Management (Non-Thesis) (132 credits)

A joint M.B.A.; Non-Thesis – General Management and B.C.L./J.D. program is offered by the Desautels Faculty of Management and the Faculty of Law. This joint program provides students the opportunity to pursue legal and administrative aspects of business. Successful candidates graduate with M.B.A., B.C.L., and J.D. degrees, a trio that prepares them for careers in private and public enterprise, as well as government service.

Students complete 39 credits for the M.B.A. and 93 credits for the integrated B.C.L./J.D., for a total of 132 credits.

Required Courses - Management (24 credits)

BUSA 695	(1.5)	Real-Time Decisions
MGCR 613	(1.5)	Managerial Economics
MGCR 614	(1.5)	Management Statistics
MGCR 617	(1.5)	Operations Management
MGCR 618	(1.5)	Leadership and Professional Skills
MGCR 620	(1.5)	Information Systems
MGCR 621	(1.5)	International Environment
MGCR 622	(1.5)	Organizational Strategy
MGCR 628	(1.5)	Integrative Course
MGCR 638	(1.5)	Marketing Management
MGCR 639	(1.5)	Managing Organizational Behaviour
MGCR 640	(1.5)	Accounting and Financial Reporting
MGCR 642	(1.5)	Financial Reporting
MGCR 660	(4.5)	International Study Trip

Elective Courses (15 credits)

15 credits of courses are chosen from 600-level courses offered by the Faculty. Course choice must be approved by a program adviser in the Faculty. Students will have to attend the M.B.A. Base Camp (Accounting and Business Math) prior to commencing the M.B.A.

Required Courses - Law (47 credits)

First Year – 33 credits

LAWG 100D1	(3)	Contractual Obligations
LAWG 100D2	(3)	Contractual Obligations

LAWG 101D1	(3)	Extra-Contractual Obligations/Torts
LAWG 101D2	(3)	Extra-Contractual Obligations/Torts
LAWG 102D1	(3)	Criminal Justice
LAWG 102D2	(3)	Criminal Justice
LAWG 103	(3)	Indigenous Legal Traditions
LAWG 110D1	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116	(3)	Foundations

Second Year – 14 credits

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 – Law (12 credits)

Civil Law Immersion Courses (3 credits)

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)

PRV3 200	(3)	Advanced Common Law Obligations
PRV3 534	(3)	Remedies
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts

Social Diversity, Human Rights and Indigenous Law Courses (3 credits)

CMPL 500	(3)	Indigenous Peoples and the State
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties

CMPL 575	(3)	Discrimination and the Law
IDFC 500	(3)	Indigenous Field Studies
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 507	(3)	Critical Race Theory Advanced Seminar
LAWG 508D1	(3)	Indigenous Constitutionalism
LAWG 508D2	(3)	Indigenous Constitutionalism
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Principles of Canadian Administrative Law (3 credits)

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 (34 credits)

Students must take 34 other elective courses, offered within the Faculty or approved as credit equivalencies in order to complete the 93-credit degree

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by: a) writing an essay in a course in which the essay constitutes no less than 75% of the final grade; b) writing a term essay under independent supervision, for credit, within the Faculty of Law; c) writing an article, note, or comment or equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication. Papers written jointly do not satisfy this requirement.

8.12.7 Bachelor of Law (B.C.L.)/Juris Doctor (J.D.) & Master of Social Work (M.S.W.) (Joint B.C.L./J.D & M.S.W.) Law & Social Work (Non-Thesis) (132 credits)

A joint Master of Social Work (M.S.W.) with integrated Bachelor of Civil Law (B.C.L.) and Juris Doctor (J.D.) program is offered by the School of Social Work and the Faculty of Law.

Students complete 45 credits for the M.S.W. degree and 87 credits for the integrated B.C.L. and J.D. degrees for a total of 132 credits.

Required Courses - Social Work (30 credits)

SWRK 643	(3)	Research Methods 2
SWRK 650	(3)	Field Work Practicum 1
SWRK 651	(3)	Field Work Practicum 2
SWRK 653	(3)	Research Methods 1
SWRK 660	(6)	Field Work Practicum 3
SWRK 691	(12)	Social Work / Law Independent Study Project

Complementary Courses - Social Work (15 credits)

Students complete 15 credits of SWRK courses at the 500 or 600 level. Up to 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	(1.5)	Integration Workshop
LAWG 110D2	(1.5)	Integration Workshop
PUB2 101D1	(3)	Constitutional Law
PUB2 101D2	(3)	Constitutional Law
PUB3 116D1	(0)	
PUB3 116D2	(0)	

Second Year

The following 13 credits of courses may be taken only in the second year:

LAWG 210	(3)	Legal Ethics and Professionalism
LAWG 220D1	(3)	Property
LAWG 220D2	(3)	Property
PROC 124	(4)	Judicial Institutions and Civil Procedure

The following 1 credit course may be taken in any year after completing the first year:

PRAC 200	(1)	Advocacy
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Complementary Courses (12 credits)

Civil Law Immersion Courses

3 credits from the following list of civil law courses:

BUS2 561	(3)	Insurance
LAWG 506	(3)	Advanced Civil Law Property
PROC 200	(3)	Advanced Civil Law Obligations
PROC 549	(3)	Lease, Enterprise, Suretyship
PRV2 270	(3)	Law of Persons
PRV4 548	(3)	Administration Property of Another and Trusts

Common Law Immersion Courses

3 credits from the following list of common law courses:

PRV3 200	(3)	Advanced Common Law Obligations
PRV3 534	(3)	Remedies
PRV4 500	(3)	Restitution
PRV4 549	(3)	Equity and Trusts

Social Diversity, Human Rights and Indigenous Law Courses

3 credits from the following courses:

CMPL 500	(3)	Indigenous Peoples and the State
CMPL 504	(3)	Feminist Legal Theory
CMPL 511	(3)	Social Diversity and Law
CMPL 516	(3)	International Development Law
CMPL 565	(3)	International Humanitarian Law
CMPL 571	(3)	International Law of Human Rights
CMPL 573	(3)	Civil Liberties
CMPL 575	(3)	Discrimination and the Law
IDFC 500	(3)	Indigenous Field Studies
LAWG 503	(3)	Inter-American Human Rights
LAWG 505	(3)	Critical Engagements with Human Rights
LAWG 507	(3)	Critical Race Theory Advanced Seminar
LEEL 369	(3)	Labour Law
LEEL 582	(3)	Law and Poverty
PUB2 105	(3)	Public International Law
PUB2 500	(3)	Law and Psychiatry
PUB2 502	(3)	International Criminal Law
PUB2 551	(3)	Immigration and Refugee Law
PUB3 515	(3)	Canadian Charter of Rights and Freedoms

Principles of Canadian Administrative Law

3 credits from the following courses:

BUS1 532	(3)	Bankruptcy and Insolvency
BUS2 504	(3)	Securities Regulation
CMPL 543	(3)	Law and Practice of International Trade
CMPL 574	(3)	Government Control of Business
CMPL 575	(3)	Discrimination and the Law
CMPL 577	(3)	Communications Law
CMPL 580	(3)	Environment and the Law
LEEL 369	(3)	Labour Law
LEEL 570	(3)	Employment Law
LEEL 582	(3)	Law and Poverty
PRV4 545	(3)	Land Use Planning
PRV5 483	(3)	Consumer Law
PUB2 400	(3)	The Administrative Process
PUB2 401	(3)	Judicial Review of Administrative Action
PUB2 500	(3)	Law and Psychiatry
PUB2 551	(3)	Immigration and Refugee Law

Elective Courses (29 credits)

Students must take 29 other elective courses offered within the Faculty or approved as credit equivalencies in order to complete the 132-credit degree requirement.

Minimum Writing Requirement

All students are required to submit at least one research paper. This requirement may be satisfied by:

- a) writing an essay in a course in which the essay constitutes no less than 75% of the final grade;
- b) writing a term essay under independent supervision, for credit, within the Faculty of Law;
- c) writing an article, note, or comment of equivalent substance that is published or accepted for publication in the McGill Law Journal and approved by the Faculty Adviser to that publication.

Papers written jointly do not satisfy this requirement.

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)

2. Advanced Private Law***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)

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)

4. Human Rights and Cultural Diversity

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)

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)
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)

9 Desautels Faculty of Management

9.1 About Desautels Faculty of Management

Founded in 1906, the Desautels Faculty of Management at McGill University is ranked as one of the world's top international business schools by *Businessweek*, *Canadian Business*, *Forbes*, and *The Economist*. The Faculty's innovative programs and historic reputation for excellence continue to attract the finest students and the most prominent professors from around the globe, as well as the most demanding recruiters from the world's top employers.

Desautels houses numerous research centres and academic programs at the undergraduate, masters, executive, and PhD levels. The curriculum is built on an integrated, interdisciplinary model that combines research, practice, and teaching. This valuable, holistic approach prepares students to successfully manage and lead in today's increasingly interconnected world.

For more information, please visit mcgill.ca/desautels/about.

9.2 History of the Faculty

Management education began at McGill University in 1906. The department of Commerce was first established within the Faculty of Arts, offering commercial courses to train people as accountants, clerks, and the like. In 1912, the Commerce Program was named the School of Commerce, and the first B.Com. degrees were awarded by McGill in 1915. Five years later, McGill's School of Commerce was founded, independent of the Faculty of Arts. In 1972, the Samuel Bronfman Building, now home to the Desautels Faculty of Management, was opened at 1001 Sherbrooke Street West in the heart of downtown Montreal. A generous donation from the Bronfman family, of Seagram Corporation fame, made the construction of the building possible.

More than a century later, foundations for a world-class business school expanded to offer a B.Com. program; an M.B.A. program; specialized master's programs; M.B.A. Japan, the first Canadian degree program offered in Japan; a joint bilingual E.M.B.A. with HEC Montréal, a program first of its kind in North America; a joint Ph.D. program; and numerous executive programs. On November 17, 2005, a landmark gift of \$22 million from the Canadian Management Foundation through Dr. Marcel Desautels was donated to the Faculty, ushering in a new era in business education at McGill. The gift fostered changes to its facilities, revamping of the B.Com. and M.B.A. curricula, and hiring of new professors. In honour of his gift, the Faculty was named the Desautels Faculty of Management.

For more details on the history of the Faculty, please visit mcgill.ca/desautels/about/history.

9.3 Facilities

Management courses are mostly taught in the **Samuel Bronfman Building**. The seven-floor building is located at 1001 Sherbrooke Street West, on the south-west corner of McGill's downtown main campus. The building is adjacent to McGill's McLennan and Redpath Libraries, as well as the Service Point across the street. Furthermore, the Bronfman Building borders the main campus and other University buildings. It is a walk away from McGill's Athletics Complex.

In recent years, the Bronfman Building has witnessed major upgrades, including, thanks to Herschel Victor's generosity, a complete renovation of the lobby. Thanks to Marcel Desautels, numerous large learning-friendly classrooms have been built throughout the building, including on the Concourse level.

The Concourse and second floor are entirely dedicated to Desautels undergraduate students, featuring medium- and large-sized classrooms, modern computer labs, and large student-living areas. Both floors include a suite of offices for Desautels undergraduate student clubs as well as facilities for social activities. In addition, a small student-run shop, known as Dave's, is located in the Concourse; it is dedicated to a former classmate.

The Faculty values its students' participation in project teams for all Bronfman building renovations. Numerous areas throughout the building have been set up and are fully equipped for students to study in groups or individually. Products and furnishings are environmentally friendly and a wireless network is available throughout the building.

In early 2018, the Desautels Faculty of Management inaugurated the Donald E. Armstrong Building to house its M.B.A. and specialized master's programs. The 48,666 sq. ft. expansion brings new dedicated teaching and learning spaces that benefit all in the Faculty, as well as the University at large.

9.4 Desautels Faculty of Management Studies

9.4.1 Location

Samuel Bronfman Building

1001 Sherbrooke Street West, Room 110
 Montreal QC H3A 1G5
 Canada
 Telephone: 514-398-4068
 Faculty website: mcgill.ca/desautels
 Degree website: mcgill.ca/desautels/programs/bcom

The BCom Student Affairs Office of the Desautels Faculty of Management and the Offices of the BCom Associate Directors are located in the Samuel Bronfman Building, Room 110. The BCom Student Affairs Office serves all students taking undergraduate Management courses.

9.4.2 Administrative Officers

Dean

Yolande Chan

Associate Dean, Undergraduate Programs

Benjamin Croitoru

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**, whereas out-of-province and international students follow a **four-year program**.

9.4.4 BCom Student Affairs Office

9.4.4.1 Location

Samuel Bronfman Building
1001 Sherbrooke Street West, Room 110
Montreal QC H3A 1G5
Telephone: 514-398-4068
Fax: 514-398-3402
Email: bcom.mgmt@mcgill.ca
Website: 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 mcgill.ca/desautels/programs/bcom.

To book an advising appointment, please fill out the online form available at 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
Website: mcgill.ca/desautels/programs/bcom

OR

Summer Studies Office
Telephone: 514-398-5212
Email: summer.studies@mcgill.ca
Website: 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](#).

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 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, 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, Advanced Level and Advanced Subsidiary Exams, and Advanced Placement Exams. Students who transfer course credit from another institution may transfer up to one-third of the credits required in their degree program, including the concentration, major, or honours requirements under the following conditions:

- For credit transfer from another institution, please visit [section 1.5.6: Transfer Credits](#) for the grading policy.
- Grades of P or S are acceptable only if transferred from faculties within McGill.
- The letter grades applied by the former home institution or host institution (for exchanges and study away) take precedence over the numerical grades if provided.
- For exchange or study away purposes, it is required that course and credit approval is obtained **before** courses are taken at the host institution.
- The four-year program will require a minimum 80-credit residency at McGill.
- The three-year program will require a minimum 60-credit residency at McGill.
- A maximum of 6 credits of online non-management electives may transfer to the BCom degree if approved by the appropriate department at McGill.

9.5 BCom Degree Admission Requirements

The Desautels Faculty of Management offers programs that are highly selective; fulfilment of minimum admission requirements does not guarantee acceptance. For information about admission requirements to the BCom program, please refer to the *Undergraduate Admissions Guide*, found at mcgill.ca/applying. Students who have been asked to withdraw from a program in another faculty/university due to poor performance are not eligible for transfer into the BCom program. Information about interfaculty transfers can be obtained from the BCom Student Affairs Office at 514-398-4068 or the BCom website at mcgill.ca/desautels/programs/bcom.

9.6 BCom Degree Requirements

The Bachelor of Commerce (BCom) degree program is a three- or four-year program when taken full-time. Although the language of instruction at McGill is English, those who plan to be part of the Quebec business environment are reminded of the importance of competence in both written and oral French. Students may submit assignments and write exams in French.

9.6.1 Academic Requirements for Graduation

Each student in the Desautels Faculty of Management must be aware of the Faculty regulations as stated in this publication and on the McGill and BCom websites. While BCom Office Advisers and staff are always available to give advice and guidance, the ultimate responsibility for completeness and correctness of course selection and registration, for compliance with and completion of program and degree requirements, and for the observance of regulations and deadlines **rests with you**. It is your responsibility to seek guidance from the BCom Student Affairs Office if in any doubt; misunderstanding or misapprehension will not be accepted as cause for any exception from any regulation, deadline, program, or degree requirement.

For students entering with a Quebec CEGEP Diploma, the number of credits is generally 90. Students from outside the province of Quebec who have not completed the equivalent of a CEGEP Diploma are required to complete 120 credits.

Students Entering with Advanced Standing

All students admitted with Advanced Standing must meet with a BCom Adviser. It is your responsibility to ensure that ALL appropriate official results are provided to McGill and that your McGill transcript accurately reflects the minimum credit requirement. This must be finalized by the end of your first term at McGill. Delays to submit all official documentation may result in the advanced standing not being granted.

It is your responsibility to make sure that your course of study conforms with the curriculum requirements as described in this publication. If you want to deviate from your program, you must obtain written permission from the Director, BCom program.

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 mcgill.ca/accepted; and the BCom website at 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. **All new students are required to attend a mandatory appointment with an Academic Student Adviser** in this period of their first semester. In February or March, an Information Session takes place that helps you to select a course of study for specialization. In April, as a student continuing in the BCom program, you will plan your studies for the following year using the requirements as listed in the eCalendar or in the Degree Evaluation Module available through Minerva, as a guide to your course selection. Advice is available at the [BCom Student Affairs Office](#) for students having difficulty. Students register online using [Minerva](#).

If you are a **General Management** student choosing to do a minor in another faculty as your second area of study, you should meet with the appropriate department adviser to plan your courses. **It should be noted that minors must have a minimum of 18 credits not overlapping with other program requirements.**

If you are taking the Minor, Major, or Honours in **Economics**, you must see an adviser in the BCom Student Affairs Office for approval of your program and course selection after meeting with an Economics Adviser.

If you are in the Major Concentration or Minor in Mathematics, or Statistics, you must have your program of study initially authorized by the appropriate department adviser prior to consulting with a student adviser in the [BCom Student Affairs Office](#).

You should contact a student adviser as soon as possible if you are encountering difficulties (academic or personal) or are requesting specific information about the BCom program.

9.6.5 Registration

- It is your responsibility to **register on time**. Failure to register for courses when the registration period begins may delay graduation and completion of program requirements. **Space is limited**.
- **Priority registration** for Fall and Winter courses will begin in early April for returning BCom students. **Priority registration** in Management courses for Summer opens in early March. Exact dates may be obtained from mcgill.ca/importantdates.

- All courses have limited enrolment. BCom students who are **unable to register** for required or complementary courses that they need in order to graduate on time should submit a copy of the [Closed Management Course Request Form](#) to the BCom Student Affairs Office after registration in April. During the add/drop periods, *Closed Management Course Request Forms* will not be accepted. Exact deadlines may be obtained from mcgill.ca/importantdates.
- BCom students are not permitted to take courses offered through the **School of Continuing Studies (SCS)** for credit toward their degree.
- **New students** must select their area(s) of specialization online using *Minerva* **before** they are permitted to register for courses. The program options available are found in the *Change your Curriculum* module of the Student Menu. Please note that this can be changed at any time.
- **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 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 toward your BCom, you must obtain permission from the BCom Associate Director.

9.6.6 Course Overlap

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

It is your responsibility to consult with the BCom Student Affairs Office as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course descriptions in this publication. Please refer to mcgill.ca/students/courses/plan/transfer for specific information about Advanced Standing credits and McGill course exemptions.

Credit for Statistics courses

BCom Students must take the statistics courses that are part of the BCom degree, as specified in Core and the various programs. There are many statistics courses at McGill that overlap with the statistics in our BCom degree. If students wish to receive credit from other statistics courses at McGill, they must be assessed by the BCom Office on a case-by-case basis.

Credit for computer courses offered by the School of Computer Science is governed by rules specified in its individual course descriptions.

Credit for Economics courses will be subject to the following restrictions:

- A maximum of 6 credits will be granted for Freshman Economics courses.
- A maximum of 6 credits will be granted for ECON 230D1/ECON 230D2, ECON 250D1/ECON 250D2, and MGCR 293.
- A maximum of 6 credits will be granted for ECON 330D1/ECON 330D2, ECON 352D1/ECON 352D2, and ECON 295.
- ECON 208 and ECON 209 are not permitted.

9.6.7 Courses Taken Under the Satisfactory/Unsatisfactory Option

You may select or cancel the S/U option up until the end of the add/drop period. Please find the form here:

mcgill.ca/desautels/satisfactoryunsatisfactory-su-passfail-option. All S/U credits will be excluded when calculating the Grade Point Average. This option may only be used for elective courses, one course per term, to a maximum of 10% of the total credits taken at McGill to fulfil your degree requirements.

Careful consideration should be given before using this option as it can affect scholarship and award consideration, where a minimum of 27 graded credits are required for the year, excluding the Summer term. Speak to the BCom office about the effects that your request may have on your studies.

For more information and restrictions, refer to [University Regulations and Resources](#) > [Undergraduate](#) > [Registration](#) > [section 1.3.2.5: Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#).

9.6.8 Electives

9.6.8.1 Non-Management Electives

Students must take a minimum of:

- 6 credits of non-Management electives in the three-year program; or
- 9 credits of non-Management electives in the four-year program.

This requirement does not apply to those completing any minor outside of Management, or a major in Economics, Mathematics, or Statistics, or any of the Economics Honours or Joint Honours programs.

Non-Management electives may be chosen from a broad range of faculties and departments, subject to the exclusions of [section 9.6.6: Course Overlap](#) regarding Statistics, Computer, and Economics courses, and the restrictions listed below.



Note 1: Quantitative Methods, Statistics, and Research courses offered by any department must be approved by the BCom Associate Director prior to registration in the course. Failure to obtain the necessary approval will result in the course being excluded (E) from the credit count.



Note 2: A maximum of 6 credits can be taken in English for Academic Purposes and/or English as a Second Language: the relevant subject codes are CEAP, CEEN, CEGE, CESL, and EDEC.

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.

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; 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, MUHL, MUMT, MUPD, MUPP, MUSR, MUTH, and MUAR (taught by Arts).
 - A maximum of 6 credits is approved from the following (combined): MUCO, MUCT, MUEN, MUIN, MUIT, MUJZ, MUPG, and MUSP.

Science:

- All courses are approved, subject to [section 9.6.6: Course Overlap](#) and the above Note 1, except MATH 111, MATH 112, MATH 150, MATH 151, MATH 203, MATH 204, and BIOL 373.

9.6.8.2 Electives

Subject to the requirements and restrictions for non-Management electives as outlined above, all remaining elective credits may be taken in any faculty, Management or otherwise.

9.6.9 Academic Standing

Academic Standing is based primarily on your cumulative grade point average (CGPA), but may also be affected by your term grade point average (TGPA). Academic Standing is assessed in January for the Fall term, in May for the Winter term, and in September for the Summer term; this determines whether you will be allowed to continue your studies in the next term and whether any conditions will be attached to your registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which you have deferred examinations and Fall-term grades for courses that span the Fall and Winter terms do not affect your Academic Standing for the Fall term, even though they will ultimately affect your Fall TGPA. Therefore, Academic Standings for the Fall term are designated as "Interim." **Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions.**

If you are not in Satisfactory Standing, you are strongly advised to consult with an Academic Adviser in the [BCom Student Affairs Office](#) about your course selection before the withdrawal deadlines.

9.6.9.1 Satisfactory/Interim Satisfactory Standing

If you are in Satisfactory Standing, you may continue in your program.

- New students are admitted to Satisfactory Standing.
- Students with a CGPA of 2.00 or greater are in Satisfactory Standing.
- You must obtain a minimum CGPA of 2.00 to be considered for graduation with a McGill degree.

9.6.9.2 Probationary/Interim Probationary Standing

If you are in Probationary Standing, you may continue in your program, but must carry a reduced load (maximum 14 credits per term) and raise your TGPA and CGPA to return to Satisfactory Standing (see above). You must see an Academic Adviser to discuss your course selection.

If you are in Interim Probationary Standing, you may continue in your program, but should evaluate your course load and reduce it as appropriate. You are strongly advised to consult with an Academic Adviser, before the withdrawal deadlines, about your course selection for the Winter term.

- If you were previously in Satisfactory Standing, you will be placed in Probationary Standing if your CGPA falls between 1.50 and 1.99.
- If you were previously in Probationary Standing, you will remain in Probationary Standing if your CGPA falls between 1.50 and 1.99 and your TGPA is 2.50 or higher (although the TGPA requirement will not apply to the Summer term).
- If you were previously in Interim Unsatisfactory Standing, you will be placed in Probationary Standing if your CGPA 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. You may not continue in your program, and your registration will be cancelled.

Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Academic Director, BCom program, no later than July 15 for readmission to the Fall term and November 15 for the Winter term. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (i.e., medical or other documentation) along with reassurances of future improvement. If you are in Unsatisfactory Standing for the second time, you must withdraw permanently.

- You will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term) if your CGPA falls or remains below 1.50.
- If you were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing, you will be placed in Unsatisfactory Standing if your TGPA falls below 2.50 and your CGPA is below 2.00.
- If you were previously in Unsatisfactory Standing and you were readmitted to the BCom program by the Academic Director, and you have not at least satisfied the conditions to attain Probationary Standing that were specified in your letter of readmission, you will be placed in Unsatisfactory Standing.

9.6.9.5 Incomplete Standings

- Standing awaits deferred exam;
- Standing Incomplete.

If you have 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 add/drop period for that term. If your Incomplete Standing changes to Satisfactory, Probationary, or Interim Unsatisfactory Standing, you may continue in the program. If your Standing changes to Unsatisfactory Standing, you may not continue in your program, and your registration will be cancelled.

If your Standing changes to Unsatisfactory and you wish to ask for permission to continue in your program, you must meet with your Academic Adviser as soon as you are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (i.e., medical or other documentation) along with reassurances of future improvement.

9.6.10 Time and Credit Limit for Completion of the BCom Degree

If you need 90 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the BCom degree. If you are a student completing over 90 and up to 120 credits, you become subject to these regulations one year after your initial registration.

If you wish to return to the BCom program after interrupting your studies for a period of one year or more, you must make a request for readmission through Minerva and also apply in writing to bcom.mgmt@mcgill.ca. When you are readmitted after a period of absence, you are normally subject to the program and degree requirements in effect at the time of readmission.

9.7 Grading and Credit

During the first week of lectures, each instructor will provide you with a written course outline that should include:

- Grading guidelines;
- A description of the topics to be considered in the course;

- A list of required or recommended textbooks and reading materials;
- A grading scheme or description of the methods of evaluation to be used in the course, along with due dates for assignments and dates/times of exams. All term work must be assigned early enough in the term for students to complete the assignment(s) by the last day of class. The due date for term work must be no later than the last day of classes. Changes in the distributed grading scheme are permitted only with the unanimous consent of all students registered in the course. In practice, therefore, the grading scheme is almost never changed during the term;
- The instructor's office hours for students, office location, telephone number for office appointments, and secretarial contact information;
- Academic Integrity statement: **McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism, and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see mcgill.ca/students/srr/honest for more information).** Note that all newly admitted undergraduate students are required to complete the Academic Integrity tutorial through *Minerva*.

9.7.1 Examinations

For information about final examinations and deferred examinations, also see [University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information](#).

Final examinations are centrally administered by Enrolment Services. Around the beginning of November and March, a final examination schedule will be posted on the [McGill Exams website](#) by Enrolment Services. The seating arrangements are posted on the McGill website toward the end of the last week of classes.

BCom students and non-Management students taking BCom courses are contacted by Enrolment Services via McGill email regarding final exam conflicts. Arrangements to resolve final exam conflicts are made and communicated by Enrolment Services via McGill email as well. You should also refer to the [BCom website](#) for more information, or contact Enrolment Services [Service Point](#). Students are warned not to make travel arrangements to leave Montreal prior to the posting of the official final examination schedule.

BCom courses cannot have examinations scheduled during the last two weeks of term worth more than 10% of the final grade. You must repeat any grades of D or F in core courses or courses as part of a concentration, minor, major, or honours program. However, D is a passing grade for elective courses.

9.7.1.1 Supplemental Examinations

Supplemental examinations are not offered in undergraduate courses administered by the Desautels Faculty of Management. If you are required to improve your standing in a course, you must repeat the course in a subsequent term, completing all course requirements to the satisfaction of the instructor. Faculty policy does not allow you to do additional work to improve your standing in a course.

9.7.1.2 Deferred Examinations

For missed final examinations, whatever the reason may be, professors and students are **not** to make alternate arrangements. If you are unable to write your final exam due to illness or another serious reason, you may apply for a deferral of your exam through your [Minerva](#) account, and if your application is accepted, you will be permitted to write it during the next deferred examination period.

To qualify, you must obtain documentation (such as a doctor's note) explaining your inability to write the exam, which must be dated within **5 days of the exam**, and bring it to the BCom Office as soon as possible after the exam. The application and supporting documentation must be submitted no later than **January 15** (for Fall courses) or **May 15** (Winter and Fall-Winter courses).

The BCom Office will then review the reasons for which the exam was missed and decide whether to allow you to write a deferred final exam. If approved, you will write the final exam during the University's official deferred exam period—specific dates in March (Fall terms) and August (Winter and Summer terms). It is up to you to verify the deferral schedule, which is administered by the Registrar.

It is recommended that students who have been approved for deferred exams meet with an academic adviser.

9.7.2 Verification of Grades and Rereads

In accordance with the Charter of Student Rights, and subject to its stated conditions, you have the right to consult any written submission for which you have received a mark and the right to discuss this submission with the examiner.

In a case where you feel that an error has been made in arriving at the final grade, a [Re-Read Application Form](#) must be completed in the BCom Student Affairs Office, requesting the instructor to carry out a detailed check that all questions have been marked, and that the final grade has been computed correctly on the basis of the term work, final examination, etc. However, during the course of the term, any requests to have term work re-evaluated should initially be made directly to the instructor.

The Desautels Faculty of Management recognizes two types of rereads or reassessments:

- reread of coursework (term papers, mid-terms, assignments, quizzes, etc.)
- reread of a final exam

In both cases, rather than recorrect the work and then grade it as they would have done themselves, reviewers assess the appropriateness of the original grade based, for example, on the application of the grading key to the student's work. If a grade is deemed unfair, it is changed, whether the new grade is higher or lower than the original, i.e., the reviewer's grade takes precedence over the original grade.

9.7.2.1 Reread of Coursework

You may apply to the BCom Student Affairs Office for rereads of written coursework. You are assessed a fee for such rereads; consult the Student Accounts [website](#) for specific fee amounts. Requests for rereads involving group work require the consent of all members of the group, but only one reread fee will 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](#).

9.7.3.4 Scholarships, Prizes, and Awards

Graduation Scholarships, Prizes and Awards

Certain scholarships, based solely on academic and program-related criteria, are automatically granted by the Undergraduate Scholarship Committee to students graduating at the end of the Fall or Winter terms prior to Spring Convocation.

The following scholarships are based on additional criteria, such as leadership and community involvement, and require an application. Graduating students must apply online on the BCom website by the early May deadline: mcgill.ca/desautels/programs/bcom/current-students

- Anil Gondi Community Impact Award
- Devon Anthony Haye Social Impact Scholarship
- Jaclyn Lea Fisher Volunteer Leadership Award
- Richard G. Donovan Prize in Case Excellence
- Stephen S. Goldbloom Memorial Prize

Convocation awards with no application required:

- Barry Clamen Prize for Outstanding Achievement in Accounting
- Cissy and Jimmy Greer Prize
- Commerce 1925 Award
- Dr. J. A. Coote Prize in Organizational Behaviour and Personnel
- Dr. M. Richard Gelfand Prize in Marketing
- Finestone Economics Prize
- Herbert E. Siblin Award
- Hugh Howson Memorial Prize

- L. J. Forget & Company Awards
- Laddie Millen Memorial Prizes
- McGill Accounting Society Prize
- McGill Alumnae Society Prize
- Misawa Homes Prize in International Business
- Peter S. Wise Memorial Prize in Accounting
- Sir Edward Beatty Medal

In-Course Scholarships, Prizes and Awards

In-course scholarships are granted to registered students with 27 graded credits in the fall and winter terms or 14 graded credits in one term at McGill. Eligible students are automatically considered by the Undergraduate Scholarships Committee for any award that is based solely on academic or program-related criteria. The following in-course scholarships are based on a combination of academic, volunteer, leadership, and extra-curricular involvement and require an application. Students must apply online on the BCom webpage by the early June deadline: mcgill.ca/desautels/programs/bcom/current-students. One application is required per student for all awards to which they wish to apply.

Full list of in-course scholarships for students returning for a full academic year of studies:

- Accenture Prize
- André Desmarais and Francine Chrétien-Desmarais Award in International Management
- Anil Gondi B.Com Scholarship (awarded every three years, application required)
- Barry Clamen Prize for Outstanding Achievement in Accounting
- Cecil Vineberg Scholarship
- Commerce 1953 Scholarships
- Commerce '55 Scholarships (*application required*)
- Danny and Monica Gold Award for Academic Excellence (*application required*)
- Deloitte Scholarship
- Dobson Cup Grit Prize (*awarded by the Dobson Centre*)
- Donald R. McRobie Award (*application required*)
- Dorothy Esmé Graham Snell Scholarship
- Dr. Alex Paterson Scholarship (*application required*)
- Elizabeth Macfarlane Prize
- Frederick M. Connell Award
- Gary and Wendy Balter Scholarship in Management
- George Arnold Hart Memorial Scholarship
- Gerald Benjamin Wasserman Memorial Scholarship in Entrepreneurship
- Great-West Life & London Life Scholarship (*application required*)
- HSBC Bank Canada Management Awards (*application required*)
- Jon Hartwick Award
- John V. Galley Scholarships
- Joseph H. Jacob Prize
- Letko Brosseau Investment Management Award
- Marcel A. Desautels Leadership Scholarship (*application required*)
- Marcel Desautels Institute for Integrated Management Award in Managing for Sustainability
- Marion McCall Daly Award (*application required*)
- McGill Alumnae Helen R. Y. Reid Scholarship
- Paul-Hervé Desrosiers Scholarship in Entrepreneurial Studies (*application required*)
- Peter Brojde Scholarship (*application required*)
- Peter Johnson Start-Up Prize (*awarded by the Dobson Centre*)
- Philippe & Nan-B de Gaspé Beaubien Citizenship Prize (*awarded in odd years only, application required*)
- Richter Scholarships in Accounting
- Robert Bruce Scholarship
- Sheila Wellington BMO Financial Group Awards (*application required*)
- Shirin Yeganegi Memorial Scholarship (*application required*)

- Sir William Macdonald Scholarship
- Women Associates of McGill Scholarship

To be awarded a scholarship students must be enrolled full-time in the subsequent fall and winter terms in the BCom program. If they are going on exchange in one of the following terms they must be full-time in the term they are at McGill. Students graduating in the summer or fall term are not eligible for in-course awards but may apply for graduating awards the following spring. Students who do not meet any of the eligibility requirements for a scholarship after it has been granted will have their scholarship revoked. Students who are on a leave of absence in a subsequent term or terms may not retain the award so long as they are not registered at McGill.

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)

2 Concentrations	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
2 Concentrations	30	30
Non-Mgmt Electives	6	9
Electives	15	24
Total	90	120
1 Concentration & 1 Minor (18* or 24 credits)	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
1 Concentration	15	15
1 Minor (18* or 24 credits)	18* or 24	18* or 24
Electives	18* or 12	30* or 24
Total	90	120

Concentrations

- Accounting
- Business Analytics
- Entrepreneurship
- Finance
- International Business
- Labour-Management Relations and Human Resources
- Managing for Sustainability
- Marketing
- Operations Management
- Organizational Behaviour
- Retail Management
- Strategic Management – Global Strategy
- Strategic Management – Social Business & Enterprise

9.8.1.1 Minors/Minor Concentrations for Management Students

Although only the Mathematics and Statistics Minors are outlined in this section, a wide variety of programs are available as listed in the sections for the Faculties of Arts and Science. Popular choices include Anthropology, Canadian Studies, Computer Science, English – Literature, Environmental Studies, Geological Sciences, German, History, International Development, Political Science, Women's Studies, etc. Students interested in the Minor in Economics must see an adviser in the BCom Student Affairs Office for Faculty approval.

It should be noted that a minimum of 18 credits of the Minor's requirements must not overlap with any other part of the student's program.

9.8.2 BCom Program Credit Structure: Major or Honours Programs

Majors in Management	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
Major	30	30
Non-Mgmt Electives	6	9
Electives	15	24
Total	90	120
Major Concentrations in Mathematics or Statistics	90 credits	120 credits
Math Freshman Requirements: MATH 140, MATH 141, & MATH 133	0	10
Freshman Requirements	0	17
BUSA 250	3	3
Core	33	33
Major	39	39
Electives	15	18
Total	90	120
Major in Economics	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core*	27	27
Major**	36	36
Electives	24	36
Total	90	120

* MGCR 271 Business Statistics is counted toward the 36 credits of the Major, not core.

Major in Economics	90 credits	120 credits
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** MGCR 293 & ECON 295 in core are exempted by the required ECON courses within the Major.

Major in International Management	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
International Business Concentration Component	15	15
Area of Study Component: Minor Concentration	18	18
Language Component	9-12	9-12
Experiential Learning Component *	0-3	0-3
Electives	6-9	18-21
Total	90	120

* Going on exchange grants the credits for the approved courses taken abroad; it does not grant an additional 3 credits.

Major in Managing for Sustainability	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
Major	39	39
Electives	12	24
Total	90	120

Honours in Economics	90 credits	120 credits
Math Freshman Requirements: MATH 140, MATH 141, & MATH 133	0	10
Freshman Requirements	0	17
BUSA 250	3	3
Core*	27	27
Honours	42	42
Electives	18	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 Joint Honours in Economics and Accounting	90 credits	120 credits
Math Freshman Requirements: MATH 140, MATH 141, & MATH 133	0	10
Freshman Requirements	0	17
BUSA 250	3	3
Core*	27	27
Economics	30	30
Accounting or Finance	24	24
Electives	6	9
Total	90	120

* MGCR 271, MGCR 293, & ECON 295 in core are exempted by the required ECON courses within the Honours.

Honours in Investment Management	90 credits	120 credits
Freshman Requirements	0	18
BUSA 250	3	3
Core	36	36
Honours	42	42
Non-Mgmt Electives	6	12
Electives	3	9
Total	90	120

Majors

- Accounting
- Economics for Management Students
- 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
- Economics and Accounting (Joint Honours)
- Economics and Finance (Joint Honours)
- Investment Management

9.8.3 120-Credit Program, Freshman Course Distribution

Students admitted to a program requiring 97 to 120 credits (four years) register in a Freshman Year in which they must complete MATH 122, MATH 123, and BUSA 250 in their first year of study, as well as Electives.

30 Credits

U0 Required Courses - 9 Credits

U0 Required Courses (9 credits)		
MATH 122	(3)	Calculus for Management
MATH 123	(3)	Linear Algebra and Probability
BUSA 250	(3)	Expressive Analysis for Management

U0 Elective Courses - 21 Credits

All Electives are subject to the restrictions for non-Management electives. mcgill.ca/desautels/programs/bcom/academics/programstructure/electives

A minimum grade of C is required for all courses in U0.

Students may choose to replace up to 6 credits of electives above by selecting core courses from the following:

- MGCR 222 Introduction to Organizational Behaviour (3)
- MGCR 293 Managerial Economics (3)
- MGCR 331 Information Systems (3)
- MGCR 352 Principles of Marketing (3)

9.8.4 Management Core

All BCom students take the 36-credit core curriculum set out below, except where modifications are specifically required by a major or honours program. A grade of C or better is required for all core courses. If a D is obtained in a core course, the course must be repeated.

9.8.4.1 Core Course Distribution

Required Courses (36 credits)		
ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Program Footnotes:

Students considering the following programs:

- **Major in Mathematics or Major and Minor in Statistics:**
 - replace MGCR 271 with MATH 324 (prerequisite: MATH 323)
- **Honours or Joint Honours Program in Economics:**
 - replace MGCR 271 with ECON 257D1/ECON 257D2
 - replace MGCR 293 with ECON 250D1/ECON 250D2
 - replace ECON 295 with ECON 352D1/ECON 352D2 (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: mcgill.ca/desautels/programs/bcom/academics/programstructure#concentrations.

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 1
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 451	(3)	Data Analytics in Capital Market
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2

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)

3-6 credits from the following:

INSY 446	(3)	Data Mining for Business Analytics
MGSC 404	(3)	Foundations of Decision Analytics

3-6 credits from the following:

ACCT 451	(3)	Data Analytics in Capital Market
BUSA 471	(3)	Artificial Intelligence Ethics for Business
FINE 460	(3)	Financial Analytics
INSY 442	(3)	Data Analysis and Visualization
INSY 446	(3)	Data Mining for Business Analytics
INSY 448	(3)	Text and Social Media Analytics
INSY 463	(3)	Deep Learning for Business Analytics
MGSC 404	(3)	Foundations of Decision Analytics
MGSC 416	(3)	Data-Driven Models for Operations Analytics
MRKT 440	(3)	Marketing Analytics
MRKT 442	(3)	Customer Analytics
ORGB 330	(3)	People Analytics

Or any related undergraduate topics course (with approvals from Business Analytics and the BCom Office).

9.8.5.3 Bachelor of Commerce (B.Com.) - Concentration in Entrepreneurship (15 credits)

This concentration is designed to provide students with an understanding of the key concepts and processes involved in starting and managing new ventures. It combines rigor with relevance, as all students will complete a major field project, thus providing an opportunity to apply the concepts acquired in the classroom. The concentration is multidisciplinary and integrative, as it includes courses from across areas in the Faculty. Upon completing the concentration, students will understand how to conceptualize, develop, and manage successful new ventures. The concentration is appropriate for students interested in a wide variety of new ventures, from for-profit private companies to social enterprises and cooperatives.

Students in Continuing Studies: This program is Currently under review. Admissions will not be accepted for this academic year.

Required Courses (6 credits)

MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 364	(3)	Entrepreneurship in Practice

Complementary Courses (9 credits)

To be chosen from:

ACCT 361	(3)	Management Accounting
BUSA 364	(3)	Business Law 1
BUSA 465	(3)	Technological Entrepreneurship
FINE 342	(3)	Corporate Finance
FINE 447	(3)	Venture Capital and Entrepreneurial Finance
INSY 331	(3)	Managing Information Technology
INSY 432	(3)	Digital Business Models
MGPO 365	(3)	Business-Government Relations
MGPO 432	(3)	Topics in Entrepreneurship
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 445	(3)	Industry Analysis and Competitive Strategy
MGPO 460	(3)	Managing Innovation
MRKT 365	(3)	New Products
MRKT 451	(3)	Marketing Research
MRKT 455	(3)	Sales Management
ORGB 321	(3)	Leadership

9.8.5.4 Bachelor of Commerce (B.Com.) - Concentration in Finance (15 credits)

The Finance concentration has been designed to provide understanding of key concepts in finance theory, financial institutions, investment analysis, risk management, and applied techniques. Graduates find a strong demand among financial organizations, governments, and non-financial firms where they pursue careers that lead to positions such as Managing Partner, Treasurer, and V.P. Finance.

Required Courses (9 credits)

FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance

Complementary Courses (6 credits)

Selected from any undergraduate FINE course.

9.8.5.5 Bachelor of Commerce (B.Com.) - Concentration Information Technology Management (15 credits)

The Information Technology Management concentration focuses on how organizations can leverage the power of IT. Navigating the digital economy, foundations in analyzing, selecting and applying technology solutions for business problems, as well as how to handle and analyze data.

Required Course (3 credits)

INSY 333	(3)	Systems Analysis and Modeling
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Complementary Courses (12 credits)

6-12 credits selected from:

INSY 331	(3)	Managing Information Technology
INSY 339	(3)	IT Consulting
INSY 341	(3)	Developing Business Applications
INSY 431	(3)	IT Implementation Management
INSY 432	(3)	Digital Business Models
INSY 434	(3)	Topics in Information Systems 1
INSY 437	(3)	Managing Data and Databases
INSY 440	(3)	E-Business
INSY 442	(3)	Data Analysis and Visualization
INSY 444	(3)	Online Communities and Open Innovation
INSY 450	(3)	Information Systems Project Management
INSY 455	(3)	Technology and Innovation for Sustainability

0-6 credits selected from:

INSY 336	(3)	Data Handling and Coding for Analytics
INSY 446	(3)	Data Mining for Business Analytics
INSY 448	(3)	Text and Social Media Analytics
INSY 463	(3)	Deep Learning for Business Analytics

9.8.5.6 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 variety of internationally-oriented organizations, including local business firms involved in international trade, licensing,

or financial arrangements; headquarters or subsidiaries of multinational companies; banks and other international financial institutions; and various governmental organizations.

Required Courses (3 credits)

BUSA 356	(3)	Management in Global Context
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Complementary Courses (12 credits)

Selected from the following:

BUSA 391	(3)	International Business Law
BUSA 394	(3)	Managing in Asia
BUSA 395	(3)	Managing in Europe
BUSA 401	(3)	Independent Studies in International Business
BUSA 430	(3)	Business Climate in Developing Countries
BUSA 433	(3)	Topics in International Business 1
BUSA 435	(3)	Topics in International Business 2
BUSA 481	(3)	Managing in North America
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

9.8.5.7 Bachelor of Commerce (B.Com.) - Concentration in Labour-Management Relations and Human Resources (15 credits)

The objective of this concentration is to provide a general understanding of employer-employee relations and human resources, both at the micro-level and in relation to the socio-economic context in which they occur. Students interested in more intensive study of this area are urged to consider the Major program in Labour-Management Relations and Human Resources.

Required Courses (9 credits)

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 496	(3)	Collective Bargaining
ORGB 423	(3)	Human Resources Management

Complementary Courses (6 credits)

Selected from the following:

INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	Comparative Employment Relations
INDR 492	(3)	Globalization and Labour Policy
INDR 494	(3)	Labour Law
ORGB 321	(3)	Leadership

ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 330	(3)	People Analytics
ORGB 401	(3)	Leadership Practicum in Social Sector
ORGB 409	(3)	Organizational Research Methods
ORGB 421	(3)	Managing Organizational Change
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management

9.8.5.8 Bachelor of Commerce (B.Com) - Concentration in Managing for Sustainability (15 credits)

The B.Com.; Major in General Management; Managing for Sustainability Concentration focuses on conceptual and analytical skills needed to formulate and implement organizational policies that contribute to ecologically sustainable and socially responsible economic development.

The main themes of courses in the Concentration include: organizational implications of the interlinked economic, social and ecological challenges of sustainability; the integration of sustainability into traditional business functions; and leadership, stakeholder management and managing change required to achieve sustainability.

Required Course (6 credits)

MGPO 440	(3)	Strategies for Sustainability
MSUS 402	(3)	Systems Thinking and Sustainability

Complementary Courses (9 credits)

3-9 credits from the following:

ACCT 401	(3)	Sustainability and Environmental Accounting
INSY 455	(3)	Technology and Innovation for Sustainability
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGSC 488	(3)	Sustainability and Operations
MRKT 351	(3)	Marketing and Society

0-6 credits from the following:

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 492	(3)	Globalization and Labour Policy
MGPO 365	(3)	Business-Government Relations
MGPO 430	(3)	Practicum in Not for Profit Consulting
MGPO 435	(3)	The Origins of Capitalism
MGPO 450	(3)	Ethics in Management
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MGSC 483	(3)	Analytics-Based Community Project
MSUS 401	(3)	Sustainability Consulting
MSUS 434	(3)	Topics in Sustainability
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 421	(3)	Managing Organizational Change

Or any related undergraduate topics course (with approvals from the Program Mentor and the BCom Office.)

9.8.5.9 Bachelor of Commerce (B.Com.) - Concentration in Marketing (15 credits)

The Marketing concentration prepares the student for a wide variety of career opportunities. Marketing graduates historically have found employment in the fields of product management, advertising, sales management, marketing management, pricing, marketing research, distribution, and retailing. The Marketing concentration provides a balance between courses focusing on fundamental, theoretical, and "need to know" material, and courses with a strong practical and applied orientation.

Required Courses (9 credits)

MRKT 354	(3)	Marketing Strategy
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour

Complementary Course (6 credits)

6 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

9.8.5.10 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.

9.8.5.11 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 for graduate study in the behavioural sciences or for careers in general management or human resource management.

Complementary Courses (15 credits)

Selected from the following:

ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 330	(3)	People Analytics
ORGB 380	(3)	Cross Cultural Management
ORGB 409	(3)	Organizational Research Methods
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 423	(3)	Human Resources Management
ORGB 434	(3)	Topics in Organizational Behaviour 1
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management

9.8.5.12 Bachelor of Commerce (B.Com.) - Concentration in Retail Management (15 credits)

The Retail Management concentration will combine business fundamentals together with real-time, experiential learning opportunities recognizing the growing complexity of the retail sector. Through interaction with the state-of-the-art Retail Innovation Lab, students will have the opportunity to learn firsthand about managing all levels of a retail operation using the latest technologies. The practical experience will link directly to the study of consumer behaviour, experiential marketing, omni-channel retailing, pricing analytics, efficacy of different payment systems, and global value chain management.

Required Courses (9 credits)

MRKT 459	(3)	Retail Management
RETL 402	(3)	Innovations in Retailing
RETL 407	(3)	Retail Management Project

Complementary Courses (6 credits)

Selected from the following:

INDR 294	(3)	Introduction to Labour-Management Relations
INSY 440	(3)	E-Business
INSY 442	(3)	Data Analysis and Visualization
MGSC 403	(3)	Introduction to Logistics Management
MGSC 431	(3)	Operations and Supply Chain Analysis
MRKT 355	(3)	Services Marketing
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour

MRKT 455	(3)	Sales Management
ORGB 423	(3)	Human Resources Management
RETL 408	(3)	Omni-Channel Retailing
RETL 409	(3)	Digitization of Retailing
RETL 410	(3)	Business Models in Retail
RETL 434	(3)	Topics in Retail Management

9.8.5.13 Bachelor of Commerce (B.Com.) - Concentration in Strategic Management - Global Strategy (15 credits)

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Business & Enterprise.

The Concentration in Strategic Management - Global Strategy Option provides students with the skills necessary to understand contemporary businesses in a global context, and to explore the implications of business decisions for society and the environment. Since globalization affects organizations of all types, this concentration conveys the tools necessary to understand industry structures and competitive dynamics in a global context. It provides opportunities to analyze organizational capabilities and how to enhance them, and enables students to assess the requirements of doing business in different economic and political systems. Global Strategy adds an overarching, holistic and integrated perspective to the Faculty's other concentrations and majors. Anticipated career trajectories include positions in consulting; strategic planning and analysis in multinationals and government agencies; and business development in new start-ups and small enterprises.

Complementary Courses

At least 9 credits selected from the following:

MGPO 383	(3)	International Business Policy
MGPO 445	(3)	Industry Analysis and Competitive Strategy
MGPO 460	(3)	Managing Innovation
MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization

The remaining credits to be chosen from:

BUSA 391	(3)	International Business Law
ECON 305	(3)	Industrial Organization
MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 434	(3)	Topics in Policy 1
MGPO 435	(3)	The Origins of Capitalism
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 475	(3)	Strategies for Developing Countries
MGSC 402	(3)	Operations Strategy
ORGB 380	(3)	Cross Cultural Management

9.8.5.14 Bachelor of Commerce (B.Com.) - Concentration in Strategic Management - Social Business & Enterprise (15 credits)

There are two options offered in the Strategic Management Concentration: Global Strategy and Social Business & Enterprise.

The concentration in Strategic Management - Social Business & Enterprise Option is intended for students interested in harnessing the not-for-profit, civil, and for-profit sectors to tackle social issues. Students will be challenged to reconceptualise strategy formation and implementation with an emphasis on economic development, the environment, corporate social responsibility, and social impact. The concentration will impart a comprehensive set of management skills, encompassing cross-sectoral collaboration and social entrepreneurship. It encourages students to complement their courses in Management with an array of course offerings from outside the Faculty. The concentration complements concentrations and majors in other Management areas, adding a holistic and integrated perspective. Anticipated career trajectories include positions in NGOs; international organizations such as those affiliated with the UN; social enterprise; government agencies; as well as in the fields of consulting and corporate social responsibility.

Complementary Courses

At least 9 credits selected from the following:

MGPO 365	(3)	Business-Government Relations
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 475	(3)	Strategies for Developing Countries

The remaining credits, if any, to be chosen from the following:

(Note: no more than 3 credits may be taken at the 200 level)

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 212	(3)	Anthropology of Development
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* (available at mcgill.ca/desautels/programs/bcom/academics/programstructure#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*.

9.8.7 Minors for Non-Management Students

The Desautels Faculty of Management has four minors that allow undergraduate non-Management students to develop a variety of managerial skills that will serve them throughout their chosen careers.

All minors are 18 credits split between a fixed set of required courses and a choice amongst complementary courses. Students can only pursue one of the minors offered by the Desautels Faculty of Management. On an exceptional basis, students may be permitted a maximum of one Continuing Studies course for credit within their chosen Management minor.

All minors for non-Management students have limited enrolment and require an application; the **application form** may be found at mcgill.ca/desautels/programs/bcom/academics/minors-non-management-students/management-minors-non-management-students. **The application deadline is June 1.** Decisions will be made by July 1, whereby students will be informed via their McGill email address. Courses for minors must be passed with grades of C or better. Courses for minors cannot be taken under the Satisfactory/Unsatisfactory option. Students must inform their Faculty when they are approved for one of the four minors, to ensure timely graduation.

9.8.7.1 Minor in Entrepreneurship

Detailed information on this Minor can be found under [Faculty of Education > Undergraduate > Browse Academic Units & Programs > Kinesiology and Physical Education > section 5.8.4.5: Bachelor of Science \(B.Sc\) \(Kinesiology\) - Minor in Entrepreneurship \(18 credits\)](#).

9.8.7.2 Minor in Entrepreneurship for Science Students

Detailed information on this Minor can be found under [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.12: Entrepreneurship for Science Students](#).

9.8.7.3 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

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

Complementary Courses (9 credits)

9 credits selected from any other undergraduate FINE course.

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 courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Introduction to Finance

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Principles of Marketing
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

9.8.7.5 Bachelor of Commerce (B.Com.) - Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Principles of Marketing
MRKT 354	(3)	Marketing Strategy
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits:

MGCR 271*	(3)	Business Statistics
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6 credits selected from:

MRKT 357	(3)	Marketing Planning I
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 6.12.10.20: 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 beginning of the program. Only grades of C or better may count towards the Major requirements.



Mentors: Please consult the Bachelor of Commerce website at: mcgill.ca/desautels/programs/bcom/academics/course-information.

9.8.8.1 Bachelor of Commerce (B.Com.) - Major Accounting (66 credits)

CPA requirements are solely the students' responsibility and vary from one institution to another. Please note that these requirements are subject to change.

This 30-credit Major is designed to meet the increased demand for accounting options within the BCom program.

All BCom students take a Core curriculum in addition to the Major.

Required Courses (54 credits)**Management Core (36 credits)**

ECON 295	(3)	Macroeconomic Policy
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MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (18 credits)

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 455	(3)	Development of Accounting Thought

Complementary Courses (12 credits)

Revision, June 2022. Start of revision.

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 451	(3)	Data Analytics in Capital Market
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing
ACCT 486	(3)	Business Taxation 2

Revision, June 2022. End of revision.

9.8.8.2 Bachelor of Commerce (B.Com.) - Major Business Analytics (69 credits)

The Major in Business Analytics offers an interdisciplinary approach to study the evolving field of management analytics with a strong emphasis on experiential learning. The major is designed to address the growing needs of organizations for business analytics, data science, and artificial intelligence. The emphasis of the program will be on managerial issues and use of state-of-the-art data analytics tools to optimize organizational decisions in a variety of managerial settings.

Required Courses (54 credits)

BUSA 250	(3)	Expressive Analysis for Management
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Management Core

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major

INSY 336	(3)	Data Handling and Coding for Analytics
INSY 446	(3)	Data Mining for Business Analytics
MGSC 401	(3)	Statistical Foundations of Data Analytics
MGSC 404	(3)	Foundations of Decision Analytics

3 credits of experiential learning from the following:

MGSC 483	(3)	Analytics-Based Community Project
RETL 407	(3)	Retail Management Project

Complementary Courses

6-9 credits of technical component from the following:

INSY 437	(3)	Managing Data and Databases
INSY 442	(3)	Data Analysis and Visualization
INSY 463	(3)	Deep Learning for Business Analytics

6-9 credits of topics component from the following:

ACCT 451	(3)	Data Analytics in Capital Market
BUSA 471	(3)	Artificial Intelligence Ethics for Business
FINE 460	(3)	Financial Analytics
INSY 448	(3)	Text and Social Media Analytics
MGSC 416	(3)	Data-Driven Models for Operations Analytics
MRKT 440	(3)	Marketing Analytics
MRKT 442	(3)	Customer Analytics
ORGB 330	(3)	People Analytics

Or any related undergraduate topics course (with approvals from the Business Analytics area and the B.Com. Office).

9.8.8.3 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 Courses (18 credits)

Selected from other 200-, 300-, and 400-level courses in Economics (ECON), excluding courses with numbers below 210. At least 6 of these 18 credits should be taken from courses with 400-level numbers. No more than 6 of the 18 credits may be taken at the 200 level.

9.8.8.4 Bachelor of Commerce (B.Com.) - Major Finance (66 credits)

The 30-credit Finance Major has been designed to meet the increasing demand for expertise in this rapidly growing functional area of business. This major is designed to provide in-depth knowledge of finance theory, financial institutions, investment analysis, risk management, and applied techniques. Employment for graduates is most often obtained in investment and commercial banking, manufacturing and service firms, non-profit organizations and governments, and non-financial firms.

All BCom students take a Core curriculum in addition to this Major.

Required Courses (54 credits)
Management Core (36 credits)

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance

MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (18 credits)

FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
FINE 443	(3)	Applied Corporate Finance
FINE 448	(3)	Financial Derivatives
FINE 482	(3)	International Finance 1
MGSC 372	(3)	Advanced Business Statistics

Complementary Courses (12 credits)

9-12 credits from any undergraduate FINE courses.

0-3 credits 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

9.8.8.5 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 Core curriculum in addition to this Major.

Required Courses (54 credits)**Management Core (36 credits)**

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business

MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (21 credits)

INSY 331	(3)	Managing Information Technology
INSY 333	(3)	Systems Analysis and Modeling
INSY 341	(3)	Developing Business Applications
INSY 431	(3)	IT Implementation Management
INSY 437	(3)	Managing Data and Databases
INSY 442	(3)	Data Analysis and Visualization
INSY 450	(3)	Information Systems Project Management

Complementary Courses (9 credits)

Selected from the following:

INSY 336	(3)	Data Handling and Coding for Analytics
INSY 339	(3)	IT Consulting
INSY 430	(3)	IT in Financial Markets
INSY 432	(3)	Digital Business Models
INSY 434	(3)	Topics in Information Systems 1
INSY 440	(3)	E-Business
INSY 444	(3)	Online Communities and Open Innovation
INSY 446	(3)	Data Mining for Business Analytics
INSY 455	(3)	Technology and Innovation for Sustainability

9.8.8.6 Bachelor of Commerce (B.Com.) - Major International Management (87 credits)

The B.Com.; Major in International Management focuses on combining business studies with regional or thematic global studies and foreign language proficiency, including the impact of managing in one of three themes:

- 1) Comparative Global Studies;
- 2) Global Politics and Economy;
- 3) Global Well-Being and Development.

This Major is interdisciplinary and integrative and includes an international business component, an interdisciplinary area of study that includes a Minor Concentration/Minor outside the Management Faculty, language courses, and an experiential learning experience in the form of either exchange, internship or research.

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

Required Course (3 credits)

BUSA 250	(3)	Expressive Analysis for Management
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International Business Component (3 credits)

BUSA 356	(3)	Management in Global Context
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Complementary Courses (39-45 credits)**International Business Component**

12 credits selected from the following:

BUSA 391	(3)	International Business Law
BUSA 394	(3)	Managing in Asia
BUSA 395	(3)	Managing in Europe
BUSA 401	(3)	Independent Studies in International Business
BUSA 433	(3)	Topics in International Business 1
BUSA 481	(3)	Managing in North America
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 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

Area of Study Component

18 credits of either one minor concentration or courses from the selected list of courses from one of the three themes below:

Theme 1: Comparative Global Studies

Students can choose to study a region including Africa, East Asia, Middle East, South Asia, Europe, or the Americas, or several regions from a comparative global perspective in Religious Studies, Political Science, History, or Economics. This option focuses on aspects of global society and culture from a social science perspective. This theme is suitable for students who would like to work in a specific country or region or for students who want to work for a multinational company or government organization with global interests.

B.A. Minor Concentration in African Studies (18 credits)

B.A. Minor Concentration in Canadian Studies (18 credits)

B.A. Minor Concentration in East Asian Cultural Studies (18 credits)

B.A. Minor Concentration in Economics* (18 credits)

B.A. Minor Concentration in History (18 credits)

B.A. Minor Concentration in Jewish Studies (18 credits)

B.A. Minor Concentration in Quebec Studies & Community-Engaged Learning/

La concentration Mineure en Études sur le Québec et apprentissage par engagement communautaire (18 credits)

B.A. Minor Concentration in Russian Culture (18 credits)

B.A. Minor Concentration in South Asian Studies (18 credits)

B.A. Minor Concentration in World Islamic & Middle East Studies (18 credits)

* 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 Political Science (18 credits)

OR

Global Governance, Conflict and Human Rights

18 credits of the following courses with at least 6 credits at the 300 level or above:

ANTH 212	(3)	Anthropology of Development
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 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 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

Theme 3: Global Well-Being and Development

Broad-based, interdisciplinary topics will allow students to study current issues of social importance ranging from: poverty and inequality, health promotion and the environment, sustainability, and natural resource management. Students will be prepared to apply business practices to the protection of the vulnerable and the planet. Students will be poised to work for multinationals, governments, or non-governmental organizations.

- B.A. Minor Concentration in Anthropology (18 credits)
- B.A. Minor Concentration in Economics* (18 credits)
- B.A. Minor Concentration in Geography (18 credits)
- B.A. Minor Concentration in International Development Studies (18 credits)
- B.A. Minor Concentration in Psychology (18 credits)
- B.A. Minor Concentration in Social Studies of Medicine (18 credits)
- B.A. Minor Concentration in Sociology (18 credits)
- B.A. Minor Concentration in Environment (18 credits) [Bieler School of Environment]
- B.Sc. Minor in Environment (18 credits) [Bieler School of Environment]
- B.Sc. Field Study Minor (18 credits)

* Students should choose Economics (ECON) courses related to the environment, development, and health. Course numbers above ECON 209 (excluding ECON 295) are required, with at least 6 credits at the 300, 400, or 500 levels. Credits for the introductory sequence MGCR 293 and ECON 295 that are prerequisites for 300-level courses in economics do not count as part of this Minor Concentration. ECON 227 will not count if it is taken to meet other B.Com. requirements.

Language Component

9-12 credits chosen from the following:

9 credits of language in First- or Second-Level EAST (Asian Languages and Literature)*

or

9 credits of ISLA 221 D1/D2 Introductory Arabic**

* Students may choose to complete additional credits in Japanese, Chinese or Korean for a total of 18 credits. Only 9 credits of EAST languages will count toward the Major and any optional additional credits will count as electives or toward another component if the student has sufficient credits to complete it within their degree. Students may not exceed the total credits required to graduate in order to complete these additional language credits.

** Students with no prior knowledge of Arabic may choose two levels of Arabic. Only ISLA 221D1/D2 will count toward the Major and any additional optional credits in ISLA 322D1/D2 or 423D1/D2 will count as electives.

OR

12 credits of language courses, at the 500 level or lower, chosen from ONE of the following Subject Codes:

CLAS (Classics) [Modern Greek]

EAST (East Asian) - Third and Fourth Level

FREN (French)

FRSL (French as a Second Language)

GERM (German Studies) [German]

HISP (Hispanic Studies) [Spanish, Portuguese]

***ISLA (Middle East Studies) [Lower and Higher Intermediate Level Arabic, Turkish, Urdu, Persian]

****ITAL (Italian Studies) [Italian]

JWST (Jewish Studies) [Hebrew, Yiddish]

RUSS (Russian) [Russian]

*** Students placed in Lower Intermediate Arabic will complete ISLA 322D1/D2 and ISLA 423D1/D2 for a total of 12 credits.

**** Students wishing to register for ITAL 205D1/D2 should do so in their first year as this course is open only to U0 and U1 students. ITAL 206 is open to U0, U1, and U2 students. ITAL 210D1/D2, ITAL 215D1/D2, and ITAL 216 can be taken by all students.

Note: Registration processes for language courses vary by department, but usually involve placement tests or departmental approval. Students should consult with the individual departments to ensure that they register for the appropriate level.

Experiential Learning Component

0-3 credits of experiential learning chosen from the following:

International Exchange Component

Students complete at least one term of exchange or an international educational experience approved by the BCom SAO. Credits received for courses successfully completed while abroad will count towards other components of the Major in International Management as determined by the program/exchange adviser.

OR

Internship

Students may complete a 3-credit internship as part of their experiential credits. The internship will consist of a minimum of 150 hours of work over a period of 8-12 weeks at an approved host institution. The institution should be located either overseas or have an international focus. Major in International Management students who are enrolled in minor concentrations in the Faculty of Arts may choose to complete internship courses in the Faculty of Arts. Please see "Faculty of Arts Internship Program" or refer to the Arts Internships website for requirements, including hours and weeks required and CGPA cut-offs.

BUSA 497 (3) Internship in International Business

OR

Research

BUSA 401 (3) Independent Studies in International Business

NOTE: There are CGPA requirements for exchanges and internship courses. Students without the minimum CGPA requirement must consult the Major in International Management Adviser in the BCom office to arrange for an alternative.

9.8.8.7 Bachelor of Commerce (B.Com.) - Major Labour-Management Relations and Human Resources (66 credits)

This 30-credit Major provides students with a general understanding of the factors affecting employer-employee relations, including labour unions and laws that regulate the employment relationship. It is integral to the practice of human resource management, particularly in a unionized environment.

In addition to giving students a foundation in various aspects of labour relations and labour markets, this program provides understanding of federal and provincial labour legislation, training in collective bargaining, handling of grievances and preparation for participation in arbitration proceedings, a view of human resources, and problems and planning on the macro level.

All BCom students take a Core curriculum in addition to this 30-credit Major.

Required Courses (48 credits)

Management Core (36 credits)

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (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 Courses (18 credits)

Selected from:

ECON 306	(3)	Labour Markets and Wages
INDR 449	(3)	Occupational Health and Safety
INDR 459	(3)	Comparative Employment Relations
INDR 492	(3)	Globalization and Labour Policy
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 330	(3)	People Analytics
ORGB 380	(3)	Cross Cultural Management
ORGB 401	(3)	Leadership Practicum in Social Sector
ORGB 409	(3)	Organizational Research Methods
ORGB 420	(3)	Managing Organizational Teams
ORGB 421	(3)	Managing Organizational Change
ORGB 434	(3)	Topics in Organizational Behaviour 1
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management
SOCI 312	(3)	Sociology of Work and Industry
SOCI 321	(3)	Gender and Work
SOCI 354	(3)	Dynamics of Industrial Societies

9.8.8.8 Bachelor of Commerce (B.Com) - Major Managing for Sustainability (66 credits)

The B.Com.; Major in Managing for Sustainability focuses on combining management and business knowledge with a solid understanding of the interlinked economic, social and ecological challenges of achieving sustainability. It integrates management studies with fundamentals of environmental science and sustainability.

The Major includes the integration of multiple management disciplines with sustainability; fundamental concepts of environmental science, social sciences and human impacts on natural systems; and an experiential learning component in the form of a consulting engagement, internship or research project offering "real world" experience.

Required Courses (42 credits)

Management Core

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing

MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major

MGPO 440	(3)	Strategies for Sustainability
MSUS 402	(3)	Systems Thinking and Sustainability

Complementary Courses (24 credits)

3-9 credits from the following:

ACCT 401	(3)	Sustainability and Environmental Accounting
INSY 455	(3)	Technology and Innovation for Sustainability
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGSC 488	(3)	Sustainability and Operations
MRKT 351	(3)	Marketing and Society

3-6 credits from the following:

MGPO 430	(3)	Practicum in Not for Profit Consulting
MGSC 483	(3)	Analytics-Based Community Project
MSUS 400	(3)	Independent Studies in Sustainability
MSUS 401	(3)	Sustainability Consulting
MSUS 497	(3)	Internship in Sustainability

0-9 credits from the following:

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 492	(3)	Globalization and Labour Policy
MGPO 365	(3)	Business-Government Relations
MGPO 435	(3)	The Origins of Capitalism
MGPO 450	(3)	Ethics in Management
MGPO 469	(3)	Managing Globalization
MGPO 475	(3)	Strategies for Developing Countries
MSUS 434	(3)	Topics in Sustainability
ORGB 321	(3)	Leadership
ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 421	(3)	Managing Organizational Change

Or any related undergraduate topics course (with approvals from the Program Mentor and the BCom Office).

6-12 credits from the following:

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 400	(3)	Environmental Thought

Note: ENVR courses have limited enrolment.

3 credits of environmentally-related courses. 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. You are urged to prepare your program of study with this in mind.

Some courses may be subject to other regulations.

This list is not exhaustive. You are encouraged to examine the course lists of the various domains in the Environment program for other courses that might interest you. Courses not on the Suggested Course List may be included with the permission of 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 512	(3)	Political Ecology
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
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
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 370	(3)	Protected Areas
GEOG 403	(3)	Global Health and Environmental Change
GEOG 408	(3)	Geography of Development
GEOG 530	(3)	Global Land and Water Resources
NRSC 221	(3)	Environment and Health
PHIL 230	(3)	Introduction to Moral Philosophy 1
PHIL 237	(3)	Contemporary Moral Issues
PHIL 334	(3)	Ethical Theory
PHIL 343	(3)	Biomedical Ethics
PHIL 348	(3)	Philosophy of Law 1
POLI 212	(3)	Government and Politics - Developed World
POLI 227	(3)	Developing Areas/Introduction
POLI 345	(3)	International Organizations
POLI 445	(3)	International Political Economy: Monetary Relations
PSYC 215	(3)	Social Psychology
RELG 270	(3)	Religious Ethics and the Environment
RELG 340	()	
RELG 370	(3)	Religion and Human Rights
SOCI 222	(3)	Urban Sociology
SOCI 234	(3)	Population and Society
SOCI 235	(3)	Technology and Society
SOCI 254	(3)	Development and Underdevelopment
SOCI 386	(3)	Contemporary Social Movements
URBP 201	(3)	Planning the 21st Century City
URBP 506	(3)	Environmental Policy and Planning
URBP 530	(3)	Urban Infrastructure and Services in International Context
URBP 551	(3)	Urban Design and Planning

Natural Sciences and Technology

** Note: you may take LSCI 230 or MIMM 211, but not both; you may take ENVB 529 or GEOG 201, but not both; you may take one of BREE 217, CIVE 323 or GEOG 322; you may take BIOL 308 or ENVB 305, but not both; you may take BIOL 465 or WILD 421 but not both; you may take EPSC 201 or EPSC 233, but not both.

AGRI 340	(3)	Principles of Ecological Agriculture
ANSC 326	(3)	Fundamentals of Population Genetics
ANTH 311	(3)	Primate Behaviour and Ecology
ATOC 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)	Global Change Biology of Aquatic Ecosystems
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 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
ENVB 210	(3)	The Biophysical Environment
ENVB 301	(3)	Meteorology
ENVB 305**	(3)	Population and Community Ecology
ENVB 410	(3)	Ecosystem Ecology
ENVB 415	(3)	Ecosystem Management
ENVB 529**	(3)	GIS for Natural Resource Management
ENVR 200	(3)	The Global Environment
ENVR 202	(3)	The Evolving Earth
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)	Remote Sensing for Earth Observation
GEOG 321	(3)	Climatic Environments
GEOG 322**	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands
LSCI 230**	(3)	Introductory Microbiology
MICR 331	(3)	Microbial Ecology
MIME 320	(3)	Extraction of Energy Resources
MIMM 211**	(3)	Introductory Microbiology
MIMM 323	(3)	Microbial Physiology
NRSC 333	(3)	Pollution and Bioremediation
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 358	(3)	Flowering Plant Diversity

PLNT 460	(3)	Plant Ecology
SOIL 300	(3)	Geosystems
WILD 421**	(3)	Wildlife Conservation

9.8.8.9 Bachelor of Commerce (B.Com.) - Major Marketing (66 credits)

This 30-credit Major is designed to provide students with a strong background in marketing to prepare them for the wide variety of marketing careers available. The Major is most appropriate for those students seeking a career in brand management, small business marketing, selling and sales management, and business-to-business marketing.

All B.Com. students take a Core curriculum in addition to this Major, which is comprised of 30 credits of Marketing courses.

Required Courses (45 credits)

Management Core (36 credits)

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (9 credits)

MRKT 354	(3)	Marketing Strategy
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour

Complementary Courses (21 credits)

21 credits selected from:

MRKT 351	(3)	Marketing and Society
MRKT 355	(3)	Services Marketing
MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 434	(3)	Topics in Marketing 1
MRKT 438	(3)	Brand Management
MRKT 440	(3)	Marketing Analytics
MRKT 453	(3)	Advertising and Media
MRKT 455	(3)	Sales Management
MRKT 456	(3)	Business to Business Marketing
MRKT 459	(3)	Retail Management

MRKT 483 (3) International Marketing Management

9.8.8.10 Bachelor of Commerce (B.Com.) - Major Concentration Mathematics for Management Students (72 credits)

Students should consult the appropriate adviser in the Department of Mathematics and Statistics. See:

<https://www.mcgill.ca/mathstat/undergraduate/advising>

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
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (30 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 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MGSC 373	(3)	Operations Research 1

Complementary Courses (9 credits)

6 credits selected from:

MATH 204**	(3)	Principles of Statistics 2
MATH 316	(3)	Complex Variables
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Partial Differential Equations
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 340	(3)	Discrete Mathematics

MATH 410	(3)	Majors Project
MATH 417	(3)	Linear Optimization
MATH 423***	(3)	Applied Regression

3 credits selected from:

MGSC 372***	(3)	Advanced Business Statistics
MGSC 479	(3)	Applied Optimization
MGSC 575	(3)	Applied Time Series Analysis Managerial Forecasting
MGSC 578	(3)	Simulation of Management Systems

** MATH 204 cannot be taken for credit after credit for MATH 324 has been obtained. The two courses can be taken concurrently. Students should consult the rules for credit for Statistics courses in the Course Overlap section.

*** MGSC 372 and MATH 423 cannot both be taken for program credit.

9.8.8.11 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 BCom students take a Core curriculum in addition to this Major.

Required Courses (45 credits)

Management Core (36 credits)

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major (9 credits)

ORGB 321	(3)	Leadership
ORGB 420	(3)	Managing Organizational Teams
ORGB 423	(3)	Human Resources Management

Complementary Courses (21 credits)

9 credits from the following:

INDR 294	(3)	Introduction to Labour-Management Relations
INDR 496	(3)	Collective Bargaining

ORGB 325	(3)	Negotiations and Conflict Resolution
ORGB 330	(3)	People Analytics
ORGB 380	(3)	Cross Cultural Management
ORGB 401	(3)	Leadership Practicum in Social Sector
ORGB 409	(3)	Organizational Research Methods
ORGB 421	(3)	Managing Organizational Change
ORGB 434	(3)	Topics in Organizational Behaviour 1
ORGB 440	(3)	Career Theory and Development
ORGB 525	(3)	Compensation Management

12 credits from one of the following Specialty Areas*.

*Students select one of the three specialty areas and take 12 credits from that area. At least two courses must be above the 200 level. Individualized or customized programs are possible upon consultation with an area advisor.

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	(0)	
ANTH 342	(0)	
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

9.8.8.12 Bachelor of Commerce (B.Com.) - Major Retail Management (69 credits)

The retail industry is experiencing a period of unparalleled changes where emerging technologies such as artificial intelligence (AI) and automation are transforming every stage of the retail journey. The Retail Management major will arm the students with valuable analytical, reasoning, management and communication skills and place them at the forefront of a fast evolving and innovated retail industry while promoting for sustainability, and long-term social and environmental benefits. Admission requirements: as per other B.Com. programs offered by the Desautels Faculty of Management.

Required Courses (57 credits)

BUSA 250	(3)	Expressive Analysis for Management
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Management Core

ECON 295	(3)	Macroeconomic Policy
MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271	(3)	Business Statistics
MGCR 293	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Major

MRKT 459	(3)	Retail Management
RETL 402	(3)	Innovations in Retailing
RETL 407	(3)	Retail Management Project
RETL 408	(3)	Omni-Channel Retailing
RETL 409	(3)	Digitization of Retailing
RETL 410	(3)	Business Models in Retail

Complementary Courses (12 credits)

12 credits from the following:

BUSA 465	(3)	Technological Entrepreneurship
FINE 447	(3)	Venture Capital and Entrepreneurial Finance
FINE 477	(3)	Fintech for Business and Finance
INDR 294	(3)	Introduction to Labour-Management Relations
INSY 440	(3)	E-Business
INSY 442	(3)	Data Analysis and Visualization
MGPO 440	(3)	Strategies for Sustainability
MGSC 403	(3)	Introduction to Logistics Management
MGSC 431	(3)	Operations and Supply Chain Analysis
MRKT 355	(3)	Services Marketing
MRKT 440	(3)	Marketing Analytics
MRKT 451	(3)	Marketing Research
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising and Media
MRKT 455	(3)	Sales Management
ORGB 330	(3)	People Analytics
ORGB 423	(3)	Human Resources Management
RETL 434	(3)	Topics in Retail Management

9.8.8.13 Bachelor of Commerce (B.Com.) - Major Strategic Management (66 credits)

The Strategic Management Major combines traditional topics in strategic management, such as competition and globalization, with attention to pressing social, and environmental challenges. Since the activities of contemporary businesses can no longer be considered separately from these challenges, the Major is intended to foster a holistic view of management practice. Students will be encouraged to consider strategy formation and change for large corporations, small businesses, and social enterprises within their economic, social and environmental contexts. Because Strategic Management is a broad subject area, students are given flexibility to tailor this Major to their interests. Anticipated career trajectories are diverse, and include positions in management consulting, business development in new start-ups and small businesses; and strategic planning and analysis in large multinationals, NGOs, international organizations, and government agencies.

All BCom students take a Core curriculum in addition to this Major.

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

Complementary Courses (30 credits)

at least 9 credits from the following group:

MGPO 383	(3)	International Business Policy
MGPO 445	(3)	Industry Analysis and Competitive Strategy
MGPO 460	(3)	Managing Innovation
MGPO 469	(3)	Managing Globalization
MGPO 470	(3)	Strategy and Organization

at least 9 credits from the following group:

MGPO 365	(3)	Business-Government Relations
MGPO 438	(3)	Social Entrepreneurship and Innovation
MGPO 440	(3)	Strategies for Sustainability
MGPO 450	(3)	Ethics in Management
MGPO 475	(3)	Strategies for Developing Countries

the remaining credits, if any, to be chosen from:

AGRI 411	(3)	Global Issues on Development, Food and Agriculture
ANTH 212	(3)	Anthropology of Development
BUSA 391	(3)	International Business Law
ECON 305	(3)	Industrial Organization
ECON 313	(3)	Economic Development 1
ECON 314	(3)	Economic Development 2
INTD 200	(3)	Introduction to International Development
MGPO 362	(3)	Fundamentals of Entrepreneurship
MGPO 402	(3)	Dynamic Cities
MGPO 430	(3)	Practicum in Not for Profit Consulting
MGPO 433	(3)	Topics in Social Business and Enterprise
MGPO 434	(3)	Topics in Policy 1
MGPO 435	(3)	The Origins of Capitalism
MGSC 402	(3)	Operations Strategy
ORGB 380	(3)	Cross Cultural Management

9.8.9 Honours

Honours programs:

- [section 9.8.9.1: Bachelor of Commerce \(B.Com.\) - Honours Economics \(69 credits\)](#)
- [section 9.8.9.2: Bachelor of Commerce \(B.Com.\) - Honours Investment Management \(81 credits\)](#)

Joint Honours programs:

- [section 9.8.9.3: Bachelor of Commerce \(B.Com.\) - Joint Honours Economics and Accounting \(81 credits\)](#)
- [section 9.8.9.4: Bachelor of Commerce \(B.Com.\) - Joint Honours Economics and Finance \(81 credits\)](#)

Honours programs are available in Economics and in Investment Management. Joint Honours programs are available in Economics and Accounting and in Economics and Finance. For more information on these programs, please refer to mcgill.ca/desautels/programs/bcom/academics/course-information/honours.

The difference between the Honours and Major programs is not one of quantity but rather of quality; Honours programs involve study in greater depth. Students normally register for the Honours programs in U1 but special arrangements may be made for students wishing to enter the program at the beginning of U2.

Graduation with an Honours standing normally requires a minimum CGPA of 3.00 and an average of 3.00 in the specified courses of the Honours programs, although academic units may set higher requirements for their program GPA. The minimum grade acceptable in an Honours course is B-, although academic units may set a higher requirement for grades in their program.

Honours students who satisfy the 6-credit Statistics requirement by taking MGCR 271 and MGSC 372 (or ECON 227D1/D2) must complete ECON 468 and ECON 469 to fulfil the program requirements in Economics for the following programs: Honours in Economics for Management Students, Joint Honours in Economics and Accounting, and Joint Honours in Economics and Finance.



Mentors: Please consult the Bachelor of Commerce website at: mcgill.ca/desautels/programs/bcom/academics/course-information.

9.8.9.1 Bachelor of Commerce (B.Com.) - Honours Economics (69 credits)

The B.Com. Honours program in Economics is offered by the Desautels Faculty of Management. It provides a very good undergraduate education for those interested in pursuing further studies in economics and several other fields, including the MBA, or in entering straightaway a wide variety of careers.

This program is comprised of 42 approved credits of Honours Economics courses (9 credits of which are counted as core credits in Management).

Continuation in this Honours program from one year to the next requires a minimum grade of B- in ECON 250 and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours.

To be awarded an Honours degree, a student must obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and an overall CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and an overall CGPA of 3.50. In cases where a student takes a Supplemental Exam in an Economics course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

All Honours students should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics.

Program Prerequisites (0-10 credits)

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Required course to be completed prior to U2 (or equivalent)

** Prerequisites for entering this program (or equivalent)

Management Core (27 credits)

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Required Courses (27 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses>. Students who have taken equivalent statistics courses may be waived the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take ECON 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
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
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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)	Risk Management in Finance
FINE 450	(3)	Honours Investment Management Research Project 2
FINE 451	(3)	Fixed Income Analysis
FINE 452	(3)	Applied Quantitative Finance
FINE 455	(3)	Alternative Investments
FINE 482	(3)	International Finance 1
MGSC 372	(3)	Advanced Business Statistics

Complementary Courses (3 credits)

3 credits to be taken from the list below:

FINE 434	(3)	Topics in Finance 1
FINE 435	(3)	Advanced Topics in Finance
FINE 447	(3)	Venture Capital and Entrepreneurial Finance

9.8.9.3 Bachelor of Commerce (B.Com.) - Joint Honours Economics and Accounting (81 credits)

The B.Com. Joint Honours in Economics and Accounting program is offered jointly between Economics and the Desautels Faculty of Management. This program requires the completion of 30 specified credits of Honours courses listed in the Economics Honours part of this program and 24 specified credits for Accounting. In addition, all B.Com. students take a Core curriculum.

Students in this program should see an Economics adviser and a Management adviser. For the economics part, the students should consult: <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics, Faculty of Arts.

Continuation from one year to the next in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250 and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours.

The Faculty of Management requires that students must achieve a grade of B- or better in all courses of the Accounting component of this program.

For the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and an overall CGPA of 3.00. For a First Class Honours degree, the minimum requirements are a 3.50 program GPA in the required courses, a 3.50 average in the required and complementary credits in Economics, and an overall CGPA of 3.50. In cases where a student takes a Supplemental Exam in a course, both the original and the Supplemental Exam grades will be counted in the calculation of the GPA and CGPA averages.

For the Management part of this program, students also have to meet the requirements of the Faculty of Management for Honours and First Class Honours.

Program Prerequisites (0-10 credits)

MATH 133*	(3)	Linear Algebra and Geometry
MATH 140**	(3)	Calculus 1
MATH 141**	(4)	Calculus 2

* Required course to be completed prior to U2 (or equivalent)

** Prerequisite for entering this program (or equivalent)

Required Courses (66 credits)

Management Core (27 credits)

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 331	(3)	Information Systems
MGCR 341	(3)	Introduction to Finance
MGCR 352	(3)	Principles of Marketing
MGCR 360	(3)	Social Context of Business
MGCR 382	(3)	International Business
MGCR 423	(3)	Strategic Management
MGCR 472	(3)	Operations Management

Honours Courses (39 credits)

For the regulations governing courses in statistics, please refer to the Department's document "Rules on Stats Courses for Economics Students" available on the following website: <http://www.mcgill.ca/economics/undergraduates/courses>. Students who have taken equivalent statistics courses prior to entering the program may be waived the ECON 257D1/ECON 257D2 requirement. These students will normally be required to take ECON 469 in addition to ECON 468.

ACCT 351	(3)	Intermediate Financial Accounting 1
ACCT 352	(3)	Intermediate Financial Accounting 2
ACCT 361	(3)	Management Accounting
ACCT 455	(3)	Development of Accounting Thought
ECON 250D1	(3)	Introduction to Economic Theory: Honours
ECON 250D2	(3)	Introduction to Economic Theory: Honours
ECON 257D1	(3)	Economic Statistics - Honours
ECON 257D2	(3)	Economic Statistics - Honours
ECON 352D1	(3)	Macroeconomics - Honours
ECON 352D2	(3)	Macroeconomics - Honours
ECON 450	(3)	Advanced Economic Theory 1 - Honours
ECON 452	(3)	Advanced Economic Theory 2 - Honours
ECON 468	(3)	Econometrics 1 - Honours

Complementary Courses (15 credits)

3 credits from the following:

ECON 460	(3)	History of Thought 1 - Honours
ECON 461	(3)	History of Thought 2 - Honours
ECON 469	(3)	Econometrics 2 - Honours

12 credits from the following:

ACCT 354	(3)	Financial Statement Analysis
ACCT 362	(3)	Cost Accounting
ACCT 385	(3)	Principles of Taxation
ACCT 452	(3)	Financial Reporting Valuation
ACCT 453	(3)	Advanced Financial Accounting
ACCT 463	(3)	Management Control
ACCT 475	(3)	Principles of Auditing

ACCT 486 (3) Business Taxation 2

9.8.9.4 Bachelor of Commerce (B.Com.) - Joint Honours Economics and Finance (81 credits)

The B.Com. Joint Honours in Economics and Finance program is offered jointly between Economics and the Desautels Faculty of Management. This program requires the completion of 30 specified credits of Honours courses listed in the Economics part of the program and 24 specified credits for Finance. In addition, all B.Com. students take a Core curriculum.

Students in this program should see an Economics adviser and a Management adviser. For the economics part, they should consult the Economics Honours and Joint Honours programs at <http://www.mcgill.ca/economics/undergraduates/honours>. For the current list of advisers in Economics and their advising times, see the website of the Department of Economics, Faculty of Arts.

Continuation in the Economics part of this Joint Honours program requires a minimum grade of B- in ECON 250 and a minimum B- average in the required and complementary Honours Economics courses. Students failing to meet these requirements must switch out of the Honours program. If they continue to register in Honours, they will not be allowed to graduate with Honours.

For the Economics component, a student must also obtain a 3.00 GPA in the required courses, a 3.00 average in the required and complementary credits in Economics, and an overall CGPA of 3.00. The Faculty of Management requires that students must achieve a grade of B- or better in all courses in the Finance component of this program.

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**

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

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

Revision, June 2022. Start of revision.

6 credits from the following:

FINE 442	(3)	Capital Markets and Institutions
FINE 448	(3)	Financial Derivatives
FINE 449	(3)	Risk Management in Finance
FINE 451	(3)	Fixed Income Analysis
FINE 452	(3)	Applied Quantitative Finance

6 credits from any undergraduate FINE course.

Revision, June 2022. End of revision.

9.9 Desautels Faculty of Management Academic Staff

Dean

Yolande Chan

Vice-Deans

Anthony Masi – *Vice-Dean, Faculty*

Liette Lapointe - *Vice-Dean, Programs*

Executive Committee

Emmanuelle Vaast; Benjamin Croitoru; Lisa Cohen; Samer Faraj; Robert David; John-Paul Ferguson; Saibal Ray; Saku Mantere; Mark Michaud; Greg Houlahan; Rita McAdam; Marie-José Beaudin.

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Professors

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Assistant Professors

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CAS Full-time Faculty Lecturers, Assistant Professors (Research) (Professional), & Associate Members

A. Abrams; A. Aronovitch; L. Breitrner; R. Cecere; M. Chaudhury; M. Cote; S. De Four-Wyre; V. di Pietro; T. Gauvin; L.P. Gialloredo; L. Hammami; J.A. Hewlin; L. Holmgren; S. Hosain; J. Kondo; M.J. Lamothe; P. Levy; S. Madan; M. Marginson; D. Melville; K. Moore; J. Scott; T. Sidthidet; B. Smith; M. Sonberg; A. Taherizadeh; S. Tanguay; C. Westgate; A. White; G. Zabowski; G. Zavosh.

10 Schulich School of Music

10.1 About the School

McGill's Schulich School of Music is the largest university-based school for professional musical training and music research in Canada.

McGill's Schulich School of Music is renowned for its orchestral, choral, opera, jazz, chamber, contemporary, and early music programs, and for its award-winning creative and research work in composition, music theory, musicology, music education, sound recording, and music technology.

- *Pollack Hall* (capacity: 600), *Redpath Hall* (capacity: 300 and housing the University organ), and *Tanna Schulich Hall* (capacity: 170) are among the busiest and best concert venues in Montreal;
- The intimate *Clara Lichtenstein Hall* (capacity: 50) was renovated in 2014;
- Facilities also include the *Wirth Opera Studio* (an opera rehearsal room), and the *Multimedia Complex Suite*, including the Multimedia Room (an acoustical research lab), three isolation booths, a small recording studio, and three control rooms of different sizes;
- The *Marvin Duchow Music Library* supports research, teaching, and learning at the Schulich School of Music through reference and information literacy services, by the acquisition and preservation of physical and online collections (more than 300,000 scores, recordings, books, and periodicals, as well as a vast number of online resources), and with a variety of study and multifunctional spaces over three floors, which cater to the needs of McGill Library users at large. The Open Lab of the Music Library is a unique service in Canada, supporting the technology, sound recording, and audiovisual editing needs of the School's faculty and students.
- The *Gertrude Whitley Performance Library* has performing materials for over 6,000 titles;
- The *Centre for Interdisciplinary Research in Music Media and Technology* (CIRMMT) is an interfaculty, inter-university, international consortium of scholars that brings together researchers and artists working in the science and technology of music in a cutting-edge environment for integrated studies of music, acoustics, cognitive science, engineering, sound recording, performance science, and digital media.

The buildings house labs for numerous specialized functions: digital composition and electronic music, music education research, multi-channel sound recording, music perception and cognition, sound processing and control, computational modelling, and more. There are state-of-the-art classrooms, teaching studios, and over 100 practice rooms.

Current student enrolment is approximately 480 at the undergraduate level and approximately 380 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.

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, the 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.

10.3 Academic Staff

10.3.1 Department of Music Research

Chair

Scavone, Gary

10.3.1.1 Composition Area

Composition

Bouliane, Denys; Cherney, Brian; Ferguson, Sean; Harman, Chris Paul; Hui, Melissa; Leroux, Philippe; Lesage, Jean; Piché, Jean.

10.3.1.2 Music Education Area

Music Education

Cossette, Isabelle; Creech, Andrea; Lorenzino, Lisa.

10.3.1.3 Music Theory Area

Music Theory

Biamonte, Nicole; Caplin, William; Hasegawa, Robert; Klorman, Edward; Neidhöfer, Christoph; Schubert, Peter; Wild, Jonathan.

10.3.1.4 Music Technology Area

Music Technology

Depalle, Philippe; Fujinaga, Ichiro; McAdams, Stephen; Mulder, Axel; Scavone, Gary; Verge, Marc-Pierre; Wanderley, Marcelo.

10.3.1.5 Musicianship Area

Musicianship

Asly, Monica; Mariner, Justin; Schubert, Peter.

10.3.1.6 Musicology Area

Musicology

Barg, Lisa; Brackett, David; Cumming, Julie; Huebner, Steven; Kok, Roe-Min; Whitesell, Lloyd.

10.3.1.7 Sound Recording Area

Sound Recording

Braasch, Jonas; de Francisco, Martha; Epstein, Steven; King, Richard; Massenburg, George; Woszczyk, Wieslaw.

10.3.1.8 Associate Members

Associate Members

Guastavino, Catherine; *School of Information Studies*, Levitin, Daniel; *Dept. of Psychology*, Palmer, Caroline; *Dept. of Psychology*, Sterne, Jonathan; *Dept. of Art History and Communication Studies*

10.3.2 Department of Performance

Chair

TBA

10.3.2.1 Brass Area

French Horn

Côté, Nadia; Derome, Denys; Gaudreault, Jean; Turner, Catherine.

Trumpet

DeVuyst, Russell; Merkelo, Paul; Stoelzel, Richard.

Trombone

Beaudry, Pierre; Box, James; Dix, Trevor; Richer, Patrice.

Tuba/Euphonium

Beaudry, Pierre; Dix, Trevor; Howle, Austin; Johnson, Sasha.

10.3.2.2 Early Music

Early Music

Andriani, Laura; Bandy, Dorian; Basque, Alexis; Putterman, Mika; Bergeron, Sylvain; Brault, Olivier; Jennejohn, Matthew; Knox, Hank; Labelle, Dominique; Maute, Matthias; Napper, Suzie; Beauséjour, Luc.

10.3.2.3 Ensembles & Conducting

Ensembles

Bandy, Dorian; Bourgogne, Guillaume; Hansen, Patrick; Hargreaves, Stephen; Hauser, Alexis; Kennedy, Donny; Smith-Bessette, Tracy; Vallée, Jean-Sébastien.

10.3.2.4 Jazz Area

Jazz Bass

Coleman, Ira; Hollins, Fraser; LeBlanc, Remi-Jean; Vedady, Adrian; Walkington, Alexander.

Jazz Drums

Doxas, Jim; Green, Darrell; Hollenbeck, John; Laing, David; Lambert, Michel; McCann, Chris; White, André.

Jazz Flute

Gossage, Dave.

Jazz Guitar

Amirault, Greg; Clayton, Greg; Gauthier, Michael; Jimenez, Carlos.

Jazz Piano

Johnston, Jeff; Pilc, Jean-Michel; Suh, Min Jung; Trudel, Marianne; White, André.

Jazz Saxophone

Bolduc, Rémi; Hove, Erik; Jensen, Christine; Leroux, André; Kennedy, Donny; Lozano, Frank; McLean, Allan; Miller, Joel; Thurman, Camille.

Jazz Trombone

Grott, David; Trottier, Jean-Nicolas.

Jazz Trumpet

Couture, Jocelyn; Dean, Kevin; Mahar, Bill; Sullivan, Joe.

Jazz Violin

Tremblay, Lisanne.

Jazz Vibraphone

Stevenson, François.

Jazz Voice

Dahlen, Sienna; Lee, Rane; Novak, Bohdanna; Thurman, Camille; Tremblay, Sophie.

10.3.2.5 Organ Area

Organ

Foster, Adrian; Oldengarm, Jonathan.

10.3.2.6 Percussion Area

Percussion

Ibrahim, Kristie; Marandola, Fabrice; Mativetsky, Shawn.

10.3.2.7 Piano Area

Piano

Gavrilova, Julia; Harboyan, Patil; Hargreaves, Stephen; Hashimoto, Kyoko; Karlicek, Martin; Laimon, Sara; Lemelin, Stéphane; Marchand, Jean; McMahon, Michael; Mdivani, Marina; Poletaev, Ilya.

10.3.2.8 String Area

Violin

Cho, Jinjoo; Mallette, Marcelle; Melançon, Violaine; Read, Alexander; Roberts, Richard; Strauss, Axel; Wan, Andrew.

Viola

Fournelle-Blain, Victor; Lambert, Frédéric; Roy, André.

Cello

Dolin, Elizabeth; Dyachkov, Yegor; Haimovitz, Matt; Manker, Brian.

Double Bass

Chappell, Eric; Feltham, Scott; Yazdanfar, Ali.

Guitar

Cowan, Steven; Ducharme, Jérôme; Kearney, Patrick.

Harp

Swartz, Jennifer; Dip.(Curtis); Principal Harp, Montreal Symphony Orchestra; Assistant Professor

10.3.2.9 Voice Area

Voice

Algieri, Stefano; Kolomyjec, Joanne; Kutan, Aline; Labelle, Dominique; Mac Master, John; Polegato, Brett; Popescu, Annamaria; Smith-Bessette, Tracy; Strauss, Anja; Treviño, Matthew.

Vocal Repetiteurs and Coaches

Godin, Olivier; Gonthier, Esther; Hargreaves, Stephen; McMahon, Michael; Nadler, Rona; Nigrim, Dana; Pelletier, Louise; Scarfone, Marie-Eve.

10.3.2.10 Woodwind Area

Flute

Brouwer, Albert; Bluteau, Denis; Christie, Carolyn; G'Froerer, Joanna; Howes, Heather; Hutchins, Timothy; Shuter, Cindy.

Oboe

Baskin, Theodore; Leclair, Jacqueline.

Clarinet

Aldrich, Simon; Cope, Todd; Desgagné, Alain; Dumouchel, Michael; Normand, Jean-François.

Bassoon

Lévesque, Stéphane; Mangrum, Martin.

Saxophone

Leclair, Marie-Chantal.

10.4 About the Schulich School of Music (Undergraduate)

McGill's Schulich School of Music is the largest university-based school for professional musical training and music research in Canada.

McGill's Schulich School of Music is renowned for its orchestral, choral, opera, jazz, chamber, contemporary, and early music programs, and for its award-winning creative and research work in composition, music theory, musicology, music education, sound recording, and music technology.

- *Pollack Hall* (capacity: 600), *Redpath Hall* (capacity: 300 and housing the University organ), and *Tanna Schulich Hall* (capacity: 170) are among the busiest and best concert venues in Montreal;
- The intimate *Clara Lichtenstein Hall* (capacity: 50) was renovated in 2014;
- Facilities also include the *Wirth Opera Studio* (an opera rehearsal room), and the *Multimedia Complex Suite*, including the Multimedia Room (an acoustical research lab), three isolation booths, a small recording studio, and three control rooms of different sizes;
- The *Marvin Duchow Music Library* supports research, teaching, and learning at the Schulich School of Music through reference and information literacy services, by the acquisition and preservation of physical and online collections (more than 300,000 scores, recordings, books, and periodicals, as well as a vast number of online resources), and with a variety of study and multifunctional spaces over three floors, which cater to the needs of McGill Library users at large. The Open Lab of the Music Library is a unique service in Canada, supporting the technology, sound recording, and audiovisual editing needs of the School's faculty and students;
- The *Gertrude Whitley Performance Library* has performing materials for over 6,000 titles;
- The *Centre for Interdisciplinary Research in Music Media and Technology* (CIRMMT) is an interfaculty, inter-university, international consortium of scholars that brings together researchers and artists working in the science and technology of music in a cutting-edge environment for integrated studies of music, acoustics, cognitive science, engineering, sound recording, performance science, and digital media.

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10.4.1 Location

Strathcona Music Building
 555 Sherbrooke Street West
 Montreal QC H3A 1E3
 Canada
 Telephone: 514-398-4535
 Fax: 514-398-1540
 Website: mcgill.ca/music

10.4.2 School Administrative Officers

10.4.2.1 Dean's Office

Dean's Office

Brenda Ravenscroft	Dean
Tracy Roach	Manager Administration
Safia Nour	Human Resources Administrator
Genevieve St-Arnault	Assistant to the Dean
Hugh Topham	Associate Director Development, University Advancement
Daniel Zuluaga	University Advancement Officer
Elin Soderstrom	University Advancement Officer
Irene Baczynsky	Administrative Coordinator
Henry Tin	Manager, Finance
Elise Quinn	Faculty Research Finance Administrator
Elizabeth Burnell	Senior Accounts Administrator

10.4.2.2 Associate Deans' Office

Associate Deans' Office

Andrea Creech	Associate Dean (Academic and Student Affairs)
Lloyd Whitesell	Associate Dean (Research and Administration)
Diana (Dino) Dutz	Administrative Coordinator to the Associate Dean (Academic and Student Affairs)
Alain Terriault	LAN Manager

10.4.2.3 Graduate Studies

Graduate Studies

Lisa Barg	Associate Dean, Graduate Studies
Hélène Drouin	Senior Administrative and Student Affairs Coordinator
Michel Cayer	Student Affairs Coordinator

10.4.2.4 Academic Affairs

Academic Affairs

Gary Scavone	Chair, Department of Music Research
Stéphane Lemelin	Chair, Department of Performance

Academic Affairs

Isabel Zamora	Administrative Officer
Nicholas McCormick-Gagnon	Administrative Assistant
Ania Loboda	Student Affairs Coordinator, Performance and Music Research
Jennifer Stephenson	Timetable and Scheduling Coordinator
Christa Emerson	Ensemble Resource Supervisor
David Menzies	Booking Office Administrator
Kerry Wagner	Piano Maintenance Supervisor
Christopher Smythe	Shop Coordinator

10.4.2.5 Admissions**Admissions**

Patrick O'Neill	Admissions and Recruitment Officer
Mary Di Stefano	Graduate Service Representative
Pia D'Amico	Undergraduate Service Representative
Melanie Collins	Student Recruitment Supervisor

10.4.2.6 Student Services**Student Services**

Nancy Czettel	Manager Student Services
Adelina Lameiras	Student Affairs Officer
TBA	Administrative Student Affairs Coordinator
Diana (Dino) Dutz	Administrative Student Affairs Coordinator

10.4.2.7 Building Management**Building Management**

Peter Wightman	Building Supervisor
José Vázquez García	Customer Service Coordinator
Danuta Pietrzak	Secretary

10.4.2.8 Communications and Production

Box Office (weekdays: 12:00 to 18:00): 514-398-4547
 Concert Information: 514-398-4547 or 514-398-5145
 Bookings: 514-398-8993

Communications and Production

Annie Saumier	Associate Director
Janet Edwards	Marketing and Web Administrator
Johanne Froncioni	Production Supervisor
Maureen Leaman	Administrative Supervisor
Devon Wilkinson	Production and Event Administrator
Serge Filiatrault	Operations and Stage Manager

Communications and Production

Robert A. Doucet	Stage Manager (Redpath and Tanna Hall)
Philippe Moquin	Stage Manager (Pollack Hall)
Danielle-Ariel Caddell-Malenfant	Assistant Stage Manager (Pollack Hall)
Daniel Duguay	Assistant Stage Manager (Pollack Hall)

10.4.2.9 Marvin Duchow Music Library

Telephone: 514-398-4695

Marvin Duchow Music Library

Houman Behzadi	Head Music Librarian
Cathy Martin	Music Liaison Librarian and Coordinator, Music Library Access Services
TBA	Senior Reference Assistant and Cataloguing Editor
Kimberly White	Senior Reference Assistant and Cataloguing Editor
Gabrielle Kern	Senior Documentation Technician (audiovisual and computing technology)
Melissa Pipe	Senior Documentation Technician (audiovisual archives)
Melanie Preuss	Head Library Clerk
Julie Lefebvre	Senior Documentation Technician
Geneviève Beaudry	Senior Reference Assistant and Cataloguing Editor (Gertrude Whitley Performance Library)
Daniel Lavigne	Senior Documentation Technician

10.4.2.10 Opera McGill

Telephone: 514-398-4535, ext. 0489

Opera McGill

Patrick Hansen	Executive Director
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10.4.2.11 Digital Composition Studios

Telephone: 514-398-4552

Digital Composition Studios

Sean Ferguson	Co-Director
Philippe Leroux	Co-Director
Richard McKenzie	Chief Electronics Technician

10.4.2.12 Recording Studio

Telephone: 514-398-4549

Recording Studio

Richard King	Director
Jerry Catanescu	Chief Electronics Technician

10.4.2.13 Music Technology Research Laboratories

Fax: 514-398-2962

Music Technology Research Laboratories

Darryl Cameron

Chief Electronics Technician**10.4.2.14 Computational Acoustic Modeling Laboratory (CAML)**

Telephone: 514-398-4535, ext. 094836

Computational Acoustic Modeling Laboratory

Gary P. Scavone

Director**10.4.2.15 Distributed Digital Music Archives and Libraries Laboratory (DDMAL)**

Telephone: 514-398-4535, ext. 0300

Distributed Digital Music Archives and Libraries Laboratory

Ichiro Fujinaga

Director**10.4.2.16 Sound Processing and Control Laboratory (SPCL)**

Telephone: 514-398-4535, ext. 00271

Sound Processing and Control Laboratory

Philippe Depalle

Co-Director

Marcelo M. Wanderley

Co-Director**10.4.2.17 Input Devices and Music Interaction Laboratory (IDMIL)**

Telephone: 514-398-4535, ext. 094916

Input Devices and Music Interaction Laboratory

Marcelo M. Wanderley

Director**10.4.2.18 Music Perception and Cognition Laboratory (MPCL)**

Telephone: 514-398-4535, ext. 094812

Music Perception and Cognition Laboratory

Stephen McAdams

Director

Bennett Smith

Technical Manager**10.4.2.19 Centre for Interdisciplinary Research in Music Media & Technology (CIRMMT)**

Telephone: 514-398-8793

Fax: 514-398-7414

Centre for Interdisciplinary Research in Music Media & Technology

Fabrice Marandola

Director

Centre for Interdisciplinary Research in Music Media & Technology

Jacqueline Bednar

Office Administrator

Yves Méthot

Electronics Coordinator

Julien Boissinot

Systems Manager

Jérémie Voix

Associate Director, Scientific and Technological Research

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, double degrees or minor. B.Mus. students who are interested in pursuing double majors or double degrees should consult this website: 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 Music
- Faculty Program Music – Jazz
- 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

10.5.1.2 Faculty Programs

- [section 10.8.1.4: Bachelor of Music \(B.Mus.\) - Faculty Program Music \(123 credits\)](#)
- [section 10.8.1.5: Bachelor of Music \(B.Mus.\) - Faculty Program Music - Jazz \(123 credits\)](#)

These programs are designed to accommodate students who are interested in combining studies in music with studies in other disciplines; who are interested in a pattern of specialization not provided in the established major programs; or who are undecided about the area of music in which they wish to specialize.

All of the above B.Mus. programs normally require at least three years of study following completion of the Quebec Diploma of Collegial Studies or four years of study following completion of secondary school elsewhere.

10.5.1.3 B.A. Major Concentration in Music

The Faculty of Arts offers a Bachelor of Arts degree with a Major concentration in Music. Further details on the program can be found in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > Music \(MUAR\) > section 3.10.30.7: Bachelor of Arts \(B.A.\) - Major Concentration Music \(36 credits\)](#).

10.5.1.4 Minor Programs

With the exception of the Minor Musical Applications of Technology and the Minor Musical Science and Technology, the following programs are available to students enrolled in a Bachelor of Music program in general. Courses in these minors may be applied as music/free electives in a Bachelor of Music program. Please refer to each program's description for admission requirements and further details.

- [section 10.8.1.7: Bachelor of Music \(B.Mus.\) - Minor Composition \(18 credits\)](#)
- [section 10.8.2.7: Bachelor of Music \(B.Mus.\) - Minor Conducting \(18 credits\)](#)
- [section 10.8.2.8: Bachelor of Music \(B.Mus.\) - Minor Early Music Performance \(18 credits\)](#)
- [section 10.8.2.9: Bachelor of Music \(B.Mus.\) - Minor Jazz Arranging and Composition \(18 credits\)](#)
- [section 10.8.2.10: Bachelor of Music \(B.Mus.\) - Minor Jazz Performance \(18 credits\)](#)
- [section 10.8.1.8: Bachelor of Music \(B.Mus.\) - Minor Music Education \(18 credits\)](#)
- [section 10.8.1.9: Bachelor of Music \(B.Mus.\) - Minor Music Entrepreneurship \(18 credits\)](#)
- [section 10.8.1.10: Bachelor of Music \(B.Mus.\) - Minor Music History \(18 credits\)](#)
- [section 10.8.1.11: Bachelor of Music \(B.Mus.\) - Minor Music Theory \(18 credits\)](#)
- [section 10.8.1.12: Bachelor of Music \(B.Mus.\) - Minor Musical Applications of Technology \(18 credits\)](#)
- [section 10.8.1.13: Bachelor of Music \(B.Mus.\) - Minor Musical Science and Technology \(18 credits\)](#)

Minors offered through the Desautels Faculty of Management for non-management students are available to B.Mus. students that have completed the necessary prerequisites. Further information on the minors listed below can be found 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 \(For Non-Management Students\) \(18 credits\)](#)

Minor programs in Music are also available to students in the Faculty of Arts and the Faculty of Science. Further information on these minors can be found at [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.30: Music \(MUAR\)](#) and at [Faculty of Science > Undergraduate > Browse Academic Units & Programs > section 11.13.24: Music for Science Students](#).

10.5.1.5 Master of Music (M.Mus.)

The Master of Music degree (M.Mus.) is available in Composition, Performance, and Sound Recording. Specializations offered within the Performance option are:

- piano
- guitar
- orchestral instruments (including orchestral training)
- organ
- conducting
- collaborative piano
- opera and voice
- early music
- jazz

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 10.8.2.14: 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 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).

10.5.1.9 Licentiate in Music (L.Mus.)

The Licentiate in Music is offered in Performance and is designed for advanced instrumentalists and singers 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 10.8.2.11: Licentiate in Music \(L.Mus.\) - Major Performance Piano \(93 credits\)](#)
- [section 10.8.2.12: Licentiate in Music \(L.Mus.\) - Major Performance \(All Instruments except Piano, Voice and Jazz\) \(93 credits\)](#)
- [section 10.8.2.13: 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 performance projects. Candidates are preparing for stage careers as soloists and orchestral musicians, opera singers, collaborative pianists, and chamber ensembles.

It is a year-long program, with flexible requirements and a range of performance project options relevant to the diverse opportunities of the modern artist (chamber, recording, creative collaborations, etc.).

10.5.1.12 Doctor of Music (D.Mus.)

The Doctor of Music degree is offered in Composition and Performance Studies.

10.5.1.13 Doctor of Philosophy (Ph.D.)

The Doctor of Philosophy degree is available in Music – Composition, Gender and Women Studies – Music, Music Education, Musicology, Music Technology, Sound Recording, and Theory. Interdisciplinary studies are encouraged.

For details regarding master's and doctoral programs, please consult the Schulich School of Music at [Graduate and Postdoctoral Studies](#).

10.5.2 Scholarships and Financial Aid

General information on scholarships, including McGill Entrance Scholarships, and a detailed listing of all awards are available at mcgill.ca/studentaid/scholarships-aid.

The Schulich School of Music offers a range of prestigious scholarships based on academic and performance achievements. In any given year, more than 60 Schulich scholars hold renewable Schulich Scholarships valued at \$6,000 (undergraduate) and \$11,000 (graduate). Renewable Lloyd Carr-Harris String Scholarships, valued between \$6,000 and \$12,000, 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 at mcgill.ca/music/resources/undergraduate/finance.

See [Student Aid](#) for detailed information about merit-based awards for current undergraduate students.

10.5.3 Summer Studies

Summer Studies offers courses starting in May, June, and July.

Students may take a maximum of 12 credits during the Summer session. Those wishing to take more than 6 credits in any one month must obtain permission from the Music Student Affairs Office.

Information concerning course offerings and registration may be obtained from the McGill [Summer Studies Office website](#).

10.5.4 Music Credit Options for Students in Other Faculties

The Schulich School of Music offers three groups of courses that may be taken for credit by students in other faculties.

The first group consists of Music Literature and Theory courses especially designed for students from other faculties who may not have taken formal studies in music but who wish to take elective courses in the cultural, historical, and theoretical aspects of music. These courses are generally offered with a MUAR prefix. Students enrolled in a B.Mus. or L.Mus. program cannot take MUAR courses and apply them as earned credits towards their program.

The second group is the sequence of courses in music theory, musicianship, music history, and music technology that are part of a minor offered by the Schulich School of Music undergraduate curriculum. Non-music students enrolled in a particular stream of a music minor have registration priority in that stream's respective courses, providing they have completed all the necessary prerequisites.

The third group of courses consists of selected music ensembles open, by audition, to students in other faculties.

For further details on these courses, please see [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.30: Music \(MUAR\)](#). Other music courses may be taken by qualified students from other faculties provided that they obtain permission from the relevant department in the Schulich School of Music and from an academic adviser or the Associate Dean of their own faculty.

10.6 Admission

As you plan for the next step in your education, we would be pleased to assist you in providing further information and assistance. You are invited to register for a tour of the Schulich School of Music, led by a current Schulich student. To do so, please visit the following page, where you can also view other upcoming events of interest: mcgill.ca/music/admissions/visits. (All information is confidential and will be used solely for Schulich School of Music recruiting purposes.)

10.6.1 Application Procedures

All inquiries regarding admission should be directed to:

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: undergraduateadmissions.music@mcgill.ca

Full information, including access to the web-based application form, is available at 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. Application information** should include detailed descriptions of the applicant's musical background, training, and statement of intent including diplomas, certificates, and/or transcripts;
- All applicants must arrange to have a **Letter of Recommendation** submitted on their behalf;
- All **supporting documents** for undergraduate applications can be submitted online via Minerva; see mcgill.ca/music/admissions/undergraduate/materials for required materials;
- Once an admission decision is made, **official transcripts** are required to complete the admission file;
- All screening (due January 15) and recorded auditions (due February 1) should be submitted electronically directly to the Schulich School of Music: forms.music.mcgill.ca/audition/.

Applicants are advised that satisfying the entrance requirements does not guarantee admission where instrumental and/or program places are limited.

10.6.2 Music Entrance Requirements

The minimum music entrance requirements are the equivalent of McGill Conservatory Collegial I Instrument or Voice (Performance applicants: Collegial II) and Secondary V Theory and Ear Training.

Approximate Equivalents to Entrance Requirements in Practical Subjects (McGill Conservatory Collegial I – Instrument/Voice)

Quebec CEGEPs	CEGEP II
Toronto Conservatory	Grade 9
Western Board	Grade 9

Approximate Equivalents to Entrance Requirements in Practical Subjects (McGill Conservatory Collegial I – Instrument/Voice)

Mount Allison	Grade 9
Associated Board of the Royal Schools of Music	Grade 7

The above listing is intended only as a general guide. Admissibility to any program is determined by audition and academic record. Students wishing to major in Performance should be approximately two years more advanced, and be able to demonstrate potential as performers at their audition.

All applicants in **classical voice (all voice types)** and in all **jazz instruments**, who select the oncampus audition option on their application form, will be required to submit screening video material for preselection by January 15. Following a review of these recordings, selected applicants will be invited to attend a live audition. No live audition will be scheduled in classical voice (all voice types) or in any jazz instrument until recordings have been received and reviewed. All applicants must perform an audition of approximately 15 minutes in duration. The student should choose material that will represent different musical periods and reveal musicianship and technical proficiency to best advantage.

Consult the Music Admissions' website at mcgill.ca/music/admissions/undergraduate/auditions for specific information on entrance audition requirements and dates.

Recorded auditions (video) are acceptable when distance prevents an applicant from attending an audition in person.

Applicants for **Composition** are asked to submit two or three samples of their written work.

Music Education applicants are asked to outline reasons for wishing to enter the Music Education field in their statement of intent, and have a letter of reference sent from someone attesting to their suitability for teaching.

All screening, audition recordings, and composition samples should be submitted electronically to the Schulich School of Music. Please consult the Music Admissions' website at mcgill.ca/music/admissions/undergraduate/materials for instructions on how to submit this material.

10.6.3 Academic Entrance Requirements

10.6.3.1 Bachelor of Music

An applicant's entrance audition and academic record are considered when making an admission decision. As a limit is placed upon the number of students admitted to study a particular instrument or program, fulfilment of the minimum entrance requirements does not guarantee acceptance. Proof of English Proficiency may be required of non-Canadian students whose mother tongue is not English. It is the applicant's responsibility to make the necessary arrangements to take these exams before the application deadline. TOEFL and IELTS are accepted exams.

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. Applicants with qualifications from other systems will be considered for either a three-year or a four-year program.

10.6.3.6 Transfer Students

Transfer students are considered on the basis of both their university or college work and previous studies. Normally, students are expected to complete a full year of university studies prior to applying for admission, and to be in good standing as defined by the university previously attended. The minimum overall average required is a CGPA of 3.00. Transfer credits for non-Music courses in which a grade of C or better has been received are granted following an evaluation of the student's transcript. Transfer credits, with certain restrictions, are granted for music complementary or elective courses following an evaluation of the student's transcript (a higher grade may often be required). Transfer students must complete a minimum of 60 credits at McGill in order to obtain a degree.

10.6.3.7 Mature Students

Applicants who are at least 21 years of age and are Canadian citizens or Permanent Residents at or before registration, who have not met the high school or CEGEP academic requirements, and who are able to demonstrate exceptional talent in their discipline may be considered for admission. Such applicants may reside anywhere in Canada. All available academic/educational documents must be submitted. An interview may be required.

10.6.3.8 Special Students

Special Students do not need to fulfil any of the academic requirements outlined previously, but are required to have the necessary music prerequisites for the courses concerned. The minimum requirement is a bachelor's degree in music or equivalent. Registration is subject to the availability of space in the course(s) concerned. Special Students are normally not entitled to lessons in an instrument or in voice. Registration is permitted for one year only, after which time the student must apply for admission to either a degree or diploma program.

10.6.3.9 Visiting Students

Individuals wishing to take courses at McGill for credit at another university may be admitted as Visiting Students provided they have the prerequisites for the course(s) concerned and have official permission from their home university.

10.6.4 Diploma Programs

10.6.4.1 L.Mus. (All Applicants)

For admission to the Licentiate program, the applicant must have completed secondary school. The applicant's music qualifications must be equivalent to McGill Conservatory Collegial II Instrument or Voice and Secondary V Theory/Ear Training. An entrance audition is required. This program is normally three years in length.

10.6.5 Music Placement Examinations

All new students, including students from other faculties who are interested in pursuing a music minor or major, may sit diagnostic placement examinations in theory (courses with MUTH or MUJZ prefixes) and musicianship (courses with MUSP prefixes) if they wish to register for 200-level courses in these subjects. Placement examinations take place once a year.

For a precise schedule and exam descriptions, refer to [Placement Exams](#).

For B.Mus., L.Mus. students (except those in a Jazz program) and students in other bachelor programs who would like to pursue a Music minor or major, the following placement exams are available:

- Theory - MUTH 100*, 150 and 151
- Musicianship (Ear Training) - MUSP 140, 141, 240 and 241
- Musicianship - MUSP 170 and 171 (Keyboard Proficiency: piano, organ and harpsichord students are automatically exempt, and therefore not required to take this placement test)

** With the exception of students who have completed a Music DEC, or fundamental theory course(s) from another university, those who wish to take MUTH 150 must take the placement test for MUTH 100 before they can register.*

Note: Students who have successfully completed equivalent musicology courses from a CEGEP, college or university, or have passed the Royal Conservatory of Music (RCM) Level 10 History exam, are exempt from Western Musical Traditions (MUHL 186). See [Placement Exams](#) for more detail about MUHL 186 exemption.

For B.Mus. Jazz Performance, B.Mus. Faculty – Jazz, and L.Mus. Jazz Performance students, the following placement exams are available:

- Jazz Ear Training - MUSP 123 and 124
- Jazz Keyboard Proficiency - MUJZ 170 and 171 (jazz piano and jazz guitar students are automatically exempt, and therefore not required to take this placement test)
- Jazz Materials - MUJZ 160 and 161
- Theory (B.Mus. Faculty - Jazz students only) - MUTH 100*, 150 and 151

** With the exception of students who have completed a Music DEC, or fundamental theory course(s) from another university, those who wish to take MUTH 150 must take the placement test for MUTH 100 before they can register.*

Note: Students who have successfully completed equivalent jazz history courses from a CEGEP, college or university are exempt from Jazz History Survey (MUJZ 187). See [Music Placement Exams](#) for more detail about MUJZ 187 exemption.

New B.Mus. and L.Mus. students will receive the placement examination results on their Online Program Audit (OPA). See 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.

Students accepted into the Licentiate Diploma, who have completed the degree of Bachelor of Music at a Canadian or North 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.

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's limitations on enrolment.

Students seeking program readmission must submit a request in writing to the Music's *Student Affairs Office*, giving a summary of their activities during their absence. The deadlines to submit these requests are posted on the Schulich School of Music website at atmcgill.ca/music/resources/undergraduate/academic-resources/program-transfer-and-readmission.

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 about the re-audition regulations should contact the Music Student Affairs Office at studentaffairs.music@mcgill.ca.

10.6.7 Tuition Fees, Practical Instruction Fees, and Lesson Quotas



Note: The fee rate presented in this section is in reference to the 2021-2022 academic year, and is subject to change for the 2022-2023 academic year. Review current Schulich School of Music fee rate at 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 \$628.50 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, one hour per week		
Category of student (based on academic entrance qualifications)	B.Mus. (Perf. or Jazz Perf.)	B.Mus. (non-Perf. major*)
High school graduates (Gr.12) [Canadian, except Quebec; United States; overseas]	5 years	3 years
CEGEP graduates [holders of DEC or DCS in Music or a non-Music specialization]	4 years	2 years
Transfer students [from other colleges, universities, or McGill faculties] or degree holders	4 years	2 years
Mature Students [without above academic qualifications but who are 21 years old as of Sept. 1]	4 years	2 years

* B.Mus. non-Performance majors include Music Composition, Music Education, Music History, Music Theory, Faculty Program, and Faculty Program-Jazz concentration.

L.Mus. students are entitled to practical instruction at the per-credit rate plus the music practical instruction fee for a maximum of four years, one hour per week.

The maximum of four years of practical instruction for L.Mus. students includes instruction received while in a B.Mus. program either during or prior to registration in the L.Mus. program.



Note: Part-time students in the B.Mus. and L.Mus. programs and those who have exhausted the above-listed maxima will be charged a supplemental private lesson fee of \$986.75 per term in addition to the per-credit fee, and the music practical instruction fee of \$628.50 per term. Supplemental private lesson fee is waived for part-time students in the graduating year.

Special or part-time Visiting Students who are permitted to enrol for practical instruction will also be charged a supplemental private lesson fee of \$986.75 per term, in addition to the per-credit fee and the music practical instruction fee of \$628.50 per term, as will all other students taking instruction in a second practical subject.

Voice Coaching (MUIIN 300, MUIIN 301) is available at the per-credit rate for a maximum of two terms for full-time B.Mus. and L.Mus. Voice Performance students only.

Students in the Minor in Early Music and the Minor in Jazz Performance will be charged a private lesson fee of \$628.50 for 3 credits or \$314.25 for 1.5 credits in addition to the per-credit fee for Early Music Minor Repertoire Coaching and/or Practical Instruction.

10.7 Academic Policies in the Schulich School of Music

This section contains information on the following academic topics:

- [section 10.7.1: General Academic Information](#)
- [section 10.7.2: Academic Requirements by Program](#)
- [section 10.7.3: Academic Standing](#)
- [section 10.7.4: Ensemble Policy and Regulations](#)
- [section 10.7.5: Accompanying](#)
- [section 10.7.6: Academic Category](#)
- [section 10.7.7: Auditing](#)
- [section 10.7.8: Electives](#)
- [section 10.7.8.2: Non-Music Electives](#)
- [section 10.7.9: Distance Education \(Online\) Courses](#)
- [section 10.7.10: Course Changes & Withdrawal](#)
- [section 10.7.11: Incompletes](#)
- [section 10.7.12: Examinations](#)
- [section 10.7.12.2: Supplementals](#)
- [section 10.7.12.3: Reassessments and Rereads](#)
- [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 at mcgill.ca/music/programs so they can complete program requirements within the standard four-year time frame (B.Mus. students) or three-year time frame (L.Mus. students). It is particularly important for students to pass the required core courses in a timely manner and in strict sequence, as they provide structured training in the professional competencies crucial to your success in our programs and in the field of music. Students who do not pass their core courses or meet other program requirements according to the standard time frames risk not being permitted to register for lessons and/or ensembles until core courses and program requirements are completed. Students also risk delaying their graduation if they fail to complete the required courses in the recommended program sequence.

10.7.2 Academic Requirements by Program

B.Mus. Composition

All B.Mus. Composition students must attain a minimum grade of B- in all courses with MUCO prefixes in order to continue in the program.

The Composition area may recommend students to transfer to another B.Mus. program if they fail to meet this requirement. Students may consult with a program adviser to determine their eligibility to transfer to another B.Mus. program.

B.Mus. Performance

Students in all B.Mus. Performance programs must attain a minimum grade of B- in all practical instruction/exams and ensembles to continue in the program.

The faculty will issue students an academic warning if they fail to meet this requirement. Students having received a warning are permitted to continue in their admitted program providing they do not get another grade lower than B- in a practical instruction/exam and/or ensemble in subsequent terms. Students failing to meet these requirements will be asked to transfer to the B.Mus. Faculty program. Students may also consult with a program adviser to determine their eligibility to transfer to another B.Mus. program offered by the Department of Music Research.

B.Mus. Jazz Performance

All B.Mus. Jazz Performance students must attain a minimum grade of B- in all jazz courses with MUJZ prefixes, as well as in all practical instruction/exams and ensembles to continue in the program.

The faculty will issue students an academic warning if they fail to meet these requirements. Students having received a warning are permitted to continue in the admitted program as long as they abide by the probationary conditions. Students failing to meet the probationary condition will be asked to transfer to the B.Mus. Faculty Jazz concentration program. They may also consult with a program adviser to determine their eligibility to transfer to another B.Mus. program offered by the Department of Music Research.

L.Mus. Programs

Students in all L.Mus. Performance programs must attain a minimum grade of A- in all practical instruction/exams and ensembles to continue in the program.

The faculty will issue students an academic warning if they fail to meet this requirement. Students having received a warning are permitted to continue in their admitted program providing they do not get another grade lower than A- in a practical instruction/exam and/or ensemble in subsequent terms. Students failing to meet these requirements will be asked to withdraw from the licentiate program.

10.7.3 Academic Standing

In addition to meeting the program-specific academic conditions stipulated above, students are expected to maintain Satisfactory Academic Standing to allow for program continuation.

Academic Standing is based primarily on students' cumulative grade point average (CGPA), but may also be affected by their term grade point average (TGPA). Academic Standing, assessed after the end of each term, determines if students will be allowed to continue their studies in the next term and if any conditions will be attached to their registration.

Decisions about Academic Standing in the Fall term are based only on grades that are available in January. Grades for courses in which students have deferred examinations and Fall term grades for courses that span the Fall and Winter terms do not affect Academic Standing for the Fall term, even though they will ultimately affect students' Fall TGPA. Therefore, Academic Standings for the Fall term are designated as Interim and should be interpreted as advisory; moreover, Interim Standings will not appear on external transcripts. Interim Standing decisions are mentioned below only if the rules for them differ from those for regular Standing decisions.

Satisfactory/Interim Satisfactory Standing

Students in Satisfactory Standing may continue in their program.

- New students are admitted to Satisfactory Standing.
- Students with a CGPA of 2.00 or greater are in Satisfactory Standing.

Probationary/Interim Probationary Standing

Students in Probationary Standing may continue in their program, but must carry a reduced load (maximum 12 credits per term) and raise their TGPA and CGPA to return to Satisfactory Standing. They should see their program 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 adviser to review their program status before the add/drop deadline in each term.

- Students who were previously in Satisfactory Standing will be placed in Probationary Standing if their CGPA falls between 1.50 and 1.99.
- Students who were previously in Probationary Standing will remain in Probationary Standing if their CGPA falls between 1.50 and 1.99 and their TGPA is 2.50 or higher, although the TGPA requirement will not apply to the Summer term.
- Students who were previously in Interim Unsatisfactory Standing will be placed in Probationary Standing if their CGPA falls between 1.50 and 1.99 and their TGPA is 2.50 or higher.
- Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Academic and Student Affairs) will be placed in Probationary Standing if their CGPA is less than 2.00, but if they satisfy relevant conditions specified in their letter of readmission.

Unsatisfactory Readmitted Standing

Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Academic and Student Affairs) will have their Standing changed to Unsatisfactory Readmitted Standing. Their course load is specified in their letter of readmission, as are the conditions they must meet to be allowed to continue in their program. They should see a program adviser to discuss their course selection.

Unsatisfactory/Interim Unsatisfactory Standing

Students in Interim Unsatisfactory Standing may continue in their program, but should evaluate their course load and reduce it as appropriate. They are strongly advised to meet with a program adviser to review their program status before the add/drop deadline in each term.

Students in Unsatisfactory Standing who have failed to meet the minimum standards set by the Faculty may not continue in their program and their registration will be cancelled.

Appeals for readmission by students in Unsatisfactory Standing should be addressed to the Associate Dean (Academic and Student Affairs) no later than July 15 for readmission to the Fall term and November 15 for the Winter term. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation). Students in Unsatisfactory Standing for the second time must withdraw permanently.

Normally, supplemental examinations are not permitted; however, students in Unsatisfactory Standing may appeal to the Associate Dean (Academic and Student Affairs) for permission to write a supplemental examination, clearly stating the reasons for special consideration and providing proof, as appropriate.

- Students will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term) if their CGPA falls or remains below 1.50.
- For the Fall and Winter terms, students who were previously in Probationary, Unsatisfactory Readmitted, or Interim Unsatisfactory Standing will be placed in Unsatisfactory Standing if their TGPA falls below 2.50 and their CGPA is below 2.00.
- Students who were previously in Unsatisfactory Standing and who were readmitted to the Faculty by the Associate Dean (Academic and Student Affairs) who have not at least satisfied the conditions to attain Probationary Standing that were specified in the letter of readmission will be placed in Unsatisfactory Standing.

Incomplete Standings

Standing awaits deferred exam; must clear Ks, Ls, or Supplementals.

Students with Incomplete Standings in the Winter or Summer term may register for the Fall term, but their Standing must be resolved by the end of the course change period for that term. Students whose Incomplete Standing changes to Satisfactory or Probationary may continue in their program. Students whose Standing changes to Unsatisfactory Standing may not continue in their program.

Students whose Standing changes to Unsatisfactory and who wish to ask for permission to continue in their program must make a request to the Associate Dean (Academic and Student Affairs) as soon as they are placed in Unsatisfactory Standing. Readmission will be considered only when proof of extenuating circumstances that affected academic performance can be provided (e.g., medical or other documentation).

Students whose Standing is still Incomplete by the end of the course change period should immediately consult with the [Music Student Affairs Office](#).

10.7.4 Ensemble Policy and Regulations

10.7.4.1 Preamble

The ensemble program is designed to provide an enriched and cohesive curriculum in practical musicianship for every student. Much of this training is accomplished in ensembles (instrumental, choral ensemble, or specialized) for the duration of a student's studies.

Students are responsible for checking their program requirements carefully in order to verify and fulfil large and small ensemble requirements; the Performance Department does not follow the particular enrolment of any student's participation in their large or small ensembles.



Note: In some documentation, large ensembles are referred to as "basic" ensembles, and small ensembles are referred to as "assigned" ensembles.

For each program's large and small ensemble requirements, students should refer to the appropriate section of the eCalendar's [Music Undergraduate](#) section (all undergraduate and licentiate requirements are found under [section 10.8.2: Department of Performance](#) and [section 10.8.1: Department of Music Research: Composition; Music Education; Music History; Theory; Faculty Program](#). Graduate programs are found in the [Music Graduate and Postdoctoral Studies](#) section).

Small Ensembles:

Information on small ensembles for orchestral instruments can be found on the [Chamber Music website](#). Jazz majors should refer to the [Jazz Combos](#) section. Additional information on other types of small ensembles can be found on the [Other Ensembles section](#) of the School of Music's Ensembles website.

Students should refer to the [ensembles website](#) and the program description for clarification on ensemble requirements by program.



Note: In all cases where the term "director" of an ensemble is used, it is understood to mean the conductor, director, stage director, or coach of the ensemble.

The following policy and regulations apply to all students performing in all ensembles, large or small, required, complementary, or elective. They apply also to all students who have been assigned to an ensemble for any reason, including conducting students, composers- and arrangers-in-residence, and others.

10.7.4.2 Large Ensembles and Small Ensembles

For ensemble purposes, the orchestral instruments include:

- flute;
- oboe;
- clarinet;
- bassoon;
- saxophone;
- french horn;
- trumpet;
- trombone;
- tuba;
- percussion;
- harp;
- violin;
- viola;
- cello;
- double bass.

Voice majors may choose from a group of vocal and choral ensembles appropriate to the level of their development.

In all programs which specify small ensembles, the following are considered small ensembles:



Note: Beethoven Orchestra (MUEN 567) does not count toward small ensemble credits.

Small Ensembles

MUEN 540	Chamber Music Project 1
MUEN 541	Chamber Music Project 2
MUEN 553	Vocal Chamber Ensemble
MUEN 556	Introduction to Collaborative Piano 1
MUEN 557	Introduction to Collaborative Piano 2
MUEN 560	Chamber Music Ensemble
MUEN 562	Guitar Ensemble
MUEN 570	Jazz Combo
MUEN 574	Afro-Cuban / Brazilian Jazz Combo
MUEN 578	Song Interpretation 1
MUEN 579	Song Interpretation 2
MUEN 580	Early Music Ensemble
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 music and/or free elective credit. Students in performance may apply a maximum of four ensemble credits as complementary performance courses. Students electing an ensemble will normally be required to participate in the ensemble placement auditions and will be placed accordingly.

10.7.4.4 Assignments and Auditions

Auditions for large and small ensembles are mandatory for participation in the ensemble. Information on all auditions for ensembles can be found on the [ensembles website](#).

Students who cannot participate in the ensemble auditions at the times indicated on the website must contact the ensemble resource supervisor at least two (2) weeks before the date of the audition. The students must submit, in writing, reasons for their lack of availability and, if applicable, submit a recording of their audition materials prior to the day of the auditions. If students miss an audition with an accepted reason, but do not deliver the audition materials to the department, or if students miss an audition for reasons unacceptable to the Performance Department, they will not be allowed to audition and their assignment will be left entirely to the discretion of the Performance Department. The students may also be subject to grade penalties in the ensemble to which they are assigned.

Assignments for large and small ensembles are posted on the [Ensemble Resource Office website](#). Reassignments may be made from time to time during a term and will be communicated to students. Students registered in an instrumental program who are not assigned a large ensemble following the ensemble placement auditions should take a choral ensemble as their large ensemble.

10.7.4.5 Commitment

Ensembles are courses. Each student who has registered for an ensemble, or who has been assigned to an ensemble, has made a commitment to the ensemble and is required to be available to attend all rehearsals, concerts, performances, field trips, recordings, and other activities, which constitute the course requirements of that ensemble. If rehearsals outside of class meeting times occur, advance notice will be given. These additional rehearsals will be avoided when possible.

10.7.4.6 Failing Grade

A failing grade in any of the ensembles (large, small, complementary, or elective) obliges the student to make up the credit during a later semester. A subsequent failure in the same course may result in the student being required to withdraw from the program.

10.7.4.7 Request to be Excused from a Rehearsal

Students who cannot attend a rehearsal for a large ensemble are required to fill out an *Absence Request Form* as soon as they learn of their conflict. The students may be required to find a replacement for the rehearsal, in collaboration with the director.



Note: For Opera McGill policies, please contact opera.music@mcgill.ca.

How to submit a request to be absent from a rehearsal

Important: No permission is given to be excused from a rehearsal in the week (7 days) before a concert, including the dress rehearsal and the concert itself.

Absences or tardiness without an approved Absence Request Form (available at sites.music.mcgill.ca/ensembles/absencerequest) will result in a final grade deduction as follows:

- Excused absences = no loss of grade
- Tardy to rehearsal, without approved Absence Request Form = loss of one grade point (e.g., B to B-)
- Absences without approval = loss of one entire letter grade (e.g., A to B)

Students may be excused from a rehearsal of an ensemble for the following reasons; however, submitting a form with one of these reasons does not guarantee approval of a request.

Reason for Absence	Actions Required
<ul style="list-style-type: none"> • Sickness, or emergency medical or dental work <p> Important Note: Any student who is experiencing pain while playing or singing should inform their practical teacher and the Director of their ensemble(s), and should seek appropriate medical attention. 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"> 1. Submit online form in advance (if possible) or within three (3) days of returning to school. 2. Submit doctor's certificate, statement from the Student Wellness Hub, or equivalent via email to the office of the <i>Ensemble Resource Supervisor</i>.
<ul style="list-style-type: none"> • An audition for a permanent professional engagement • A master class • A major competition • A professional engagement deemed by the Music School to be very important for a student's developing career <p> Important Note: Permission will be given for no more than three (3) rehearsals.</p>	<ol style="list-style-type: none"> 1. Submit online form as soon as you learn of the opportunity. 2. Submit proof of invitation to the opportunity via email to the office of the <i>Ensemble Resource Supervisor</i>. 3. Submit proof of support by your practical teacher via email to the office of the <i>Ensemble Resource Supervisor</i>.
<ul style="list-style-type: none"> • Family emergency or an especially important family occasion (e.g., weddings, funerals) 	<ol style="list-style-type: none"> 1. Submit online form as soon as you learn of the event. 2. Submit proof of support by your practical teacher via email to the office of the <i>Ensemble Resource Supervisor</i>. 3. Submit a note from a senior family member confirming the event. An email should be sent directly to the office of the <i>Ensemble Resource Supervisor</i>.
<ul style="list-style-type: none"> • A conflict between a scheduled ensemble rehearsal and a previous important commitment made by the student • A field trip for another ensemble or class 	<ol style="list-style-type: none"> 1. Submit online form as soon as you learn of the schedule conflict. 2. Submit proof of the conflict with date via email to the office of the <i>Ensemble Resource Supervisor</i>.
<ul style="list-style-type: none"> • An authorized McGill function • A religious holiday 	<ol style="list-style-type: none"> 1. Submit online form as soon as you learn of the schedule conflict.

10.7.4.8 Preparation

If the director of an ensemble is not satisfied with the quality of the student's preparation for rehearsals, the director shall first warn the student. This warning shall be communicated by the director to the Ensemble Resource Supervisor and Area Coordinator, who shall inform the student in writing. If, in the director's opinion, this lack of preparation continues, further action will be taken to remedy the situation.

For any particular performance, if—after a written warning to the student(s) with copies to the Ensemble Resource Supervisor, practical instruction teacher, Area Coordinator, and Department Chair—the director, in consultation with their sectional coaches, feels that the performance of a student or group of students will not meet a certain minimum standard established by the director, the director may cancel a student's participation in a performance.

10.7.4.9 Discipline

The director of an ensemble may recommend that a student withdraw from an ensemble for disciplinary reasons. A student asked to do so, will be required to appear before the Department Chair, Area Coordinator, and director to show cause why they should not be required to withdraw.

Students who are required to withdraw from an ensemble for reasons of lack of preparation or discipline will be given a grade of F, which will be reflected in their grade point average (GPA).

10.7.4.10 Withdrawal

Withdrawal for any reason obliges the student to make up the credit(s) during a later term.

10.7.4.11 Exemption from a Required Ensemble

In order to be given permission not to participate in a required ensemble for a term or part thereof, a student must meet one of the following four criteria:

1. The student must be a participant in a major national or international competition, or (in the case of voice students) be given a significant role with a recognized performing arts ensemble, and (in the case of all students) have completed the minimum number of required terms of the ensemble, and have the permission of:
 - their practical teacher;
 - the Area Coordinator;
 - the director of the ensemble; **or**
2. The student must have completed all program requirements except the final exam on their instrument; **or**
3. The student must have completed all musical requirements of their program, having only non-music and/or free electives remaining; **or**
4. The student must have a significant medical reason.



Note: Permission to not participate in a required or complementary ensemble for a term or part thereof is not an exemption and does not satisfy any credit requirements for a degree.

10.7.4.12 Rotation in Large Ensembles

When possible, and to help ensure equal opportunity and experience for students in the large instrumental ensembles, the seating of students in these ensembles may be rotated periodically throughout the term or year. The director of the ensemble, along with the guidance of the Area Coordinator and/or practical instruction teachers, will determine whether or not rotation is possible.

10.7.4.13 Transfer Credits

The previous ensemble participation of students coming to McGill from other universities will be recognized if their ensemble experience was similar to that required by the Schulich School of Music; determination of this experience will be approved by the Area Coordinator and the Department Chair. In general, transfer credit is made on a term-for-term basis (not by credits) and usually does not exceed two (2) terms. Students are normally not permitted to reduce the large ensemble training requirements of their McGill program to less than the number of terms required for them to complete the rest of their program. In such cases, transfer credit may be given as music and/or free elective credit for students in non-performance programs. Students in performance may apply a maximum of four credits as complementary performance courses.

10.7.4.14 Large Ensemble Extra Credits

Based on the admitted program, large ensemble credits accumulated above the minimum may be applied as music and/or free elective credits. In addition, students in performance may apply a maximum of four **MUEN** credits as complementary performance courses. Participation in additional large or small ensembles implies that the same policies will apply.

10.7.4.15 Performance Library

Students are responsible for the music that has been loaned to them for their use, and for its return in good condition to the Gertrude Whitley Performance Library. Students will be required to pay for the replacement of any music that has been lost, stolen, or damaged, and a hold on a student's Minerva account can be placed by the Performance librarian should music or fines not be handed in to the library.

10.7.5 Accompanying

Music students registered for practical instruction (including elective study) in one of the eligible instruments may request Accompanist Funding up to a maximum number of hours. Further details are available from the Department of Performance Office (performance.music@mcgill.ca).

10.7.6 Academic Category

All Music students are registered in one of the following categories:

Academic Categories

Major: B.Mus. candidates may choose one or more of several majors as described under [section 10.8: Browse Academic Units & Programs](#).

Faculty Program: a flexible B.Mus. program (see [section 10.8.1.4: Bachelor of Music \(B.Mus.\) - Faculty Program Music \(123 credits\)](#) and [section 10.8.1.5: Bachelor of Music \(B.Mus.\) - Faculty Program Music - Jazz \(123 credits\)](#)).

L.Mus.: Diploma programs are designed for advanced instrumentalists and singers who wish to concentrate on their practical subject.

Special: those who are not proceeding towards a degree or diploma.

Visiting: those taking courses at McGill for credit towards a degree at another university.

Exchange: those taking courses at McGill as an exchange student from one of McGill's approved list of bilateral exchange partners.

10.7.7 Auditing

For information on auditing, see [University Regulations and Resources](#) > Undergraduate > Registration > [section 1.3.2.7: Auditing of Courses](#).

10.7.8 Electives

10.7.8.1 Free/Music Electives

Unless otherwise specified, any music course that is not a required course in the student's program can be counted as a Free and/or Music Elective in the B.Mus. program subject to prerequisites, program restriction, and room in the course. Ensemble credits accumulated above the minimum may be applied as Free and/or Music Elective credits with limitations depending on the program. Students in a Bachelor of Music or Licentiate in Music are not permitted to take courses with MUAR prefixes and use them as electives for the program.

10.7.8.2 Non-Music Electives

In most B.Mus. programs, students are required to complete a minimum of nine (9) elective credits from non-music courses, i.e., courses offered by faculties other than the Schulich School of Music. Students should verify the elective requirement for their admitted program from the [Schulich School of Music website](#) as each program differs.

Exemptions

Students are exempt from six (6) non-Music elective credits if they hold one Diploma of College Studies (DCS; *Diplôme d'études collégiales* [DEC]) in Quebec, or twelve (12) non-Music elective credits if they hold two DCS/DEC, e.g., one in Music and another in Social Sciences.

Language Courses

The Schulich School of Music allows up to a maximum of 12 credits of English Second Language (ESL) courses, including academic writing courses for non-anglophones, to students whose primary language is not English and have studied fewer than five years in an English-language secondary institution.

Placement tests are required for all ESL and French as a Second Language (FRSL) courses. For more information on placement tests, see mcgill.ca/mwc for ESL courses and mcgill.ca/fle for FRSL courses. Soon after the tests are evaluated, you will be issued a departmental approval for course registration.

10.7.9 Distance Education (Online) Courses

Students may take a maximum of 6 credits of non-Music elective courses taught through distance education toward their B.Mus. degree at McGill. Courses taught through distance education from institutions other than McGill will be approved as transfer credits under the following conditions:

- The course is given by a government-accredited, degree-granting institution acceptable to McGill.
- The course must be assessed by the department which oversees the subject and be approved on McGill's Course Equivalency Database (see mcgill.ca/students/transfercredit/course-equivalency).
- The course counts for credit toward degrees granted at the institution giving the course.
- Prior approval for the course is obtained from the Music Student Affairs office.

10.7.10 Course Changes & Withdrawal

Students are permitted to change courses and/or sections of a course during the add/drop period in each term. This is referred to as the official Course Change period. Course and section changes are made by the student, using Minerva to access their record directly. Contact Music Student Affairs Office if you are unable to change a course or section. For more information, see [University Regulations and Resources > Undergraduate > Registration > section 1.3.3: Course Change Period](#).

Late course change requests, including section changes, if approved, will be charged the applicable Late Course Change Fee. No charge will be made for late changes imposed by the Faculty. If students' registrations must be corrected after the Course Change period to bring their records into conformity with the courses they are actually taking, the students will be charged the late fee. For complete information on administrative fee charges and fines, please consult the [Student Accounts website](#).

Small ensembles such as chamber music (MUEN 560), jazz combo (MUEN 570) and early music (MUEN 580) have multiple sections based on group assignments at the beginning of each semester. Students who registered in the wrong course section will receive a grade of J; a failing grade. Therefore, it is important that students ensure they are enrolled in the correct course section before the add/drop deadline.

Course Withdrawal

Other than practical instruction, practical exams and/or ensembles, students are permitted to withdraw from courses after the end of the Course Change period. In such cases, the student's mark in the course will be W. This grade does not affect your cumulative grade point average (CGPA). Students can withdraw from a course on Minerva within the permissible dates. For more information, consult [Important Dates](#).

Depending on when you withdraw from a course online, you may be eligible for a refund. For information on the **Refund Policy**, consult [University Regulations and Resources > Undergraduate > Registration > section 1.3.3.1: Course Withdrawal](#).

10.7.11 Incompletes

At the discretion of the instructor, a mark of K (Incomplete) may be given to a student who, due to extenuating circumstances, has not finished the coursework on time. The deadline for completion and submission of the required work shall be set by the instructor but may not be later than four months after the K was given. If the final grade is not received within the specified timeline (as agreed by the instructor and student), the mark will be changed to KF (Incomplete 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. Courses marked with a K do not get counted towards eligible credits for in-course scholarships consideration.

Students who did not withdraw from a course before the course withdrawal deadline, or abandon a course without formally withdrawing, will receive a grade of "J"; a failing grade for not successfully meeting the course requirements.

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). The symbol K will be replaced by KK, in which case the student's grade point average will be calculated without including this course.

10.7.12 Examinations

The following information pertains to examinations for students in the Schulich School of Music.

10.7.12.1 Deferrals

Deferred examinations are permitted in the case of illness or other exceptional circumstances.

- Music students requesting a deferred examination in **academic courses** for a final exam offered during the official final exam period must submit the [Request for a Deferred Examination](#) in [Minerva](#).
- Students requesting a deferred examination in a **practical music examination** must contact the [Performance Department](#) directly to re-schedule the exam.

Supporting evidence such as an appropriate medical note is required. The supporting documents must be submitted to the [Music Student Affairs Office](#) no later than five business days from the date of the final exam. For all exam deferral requests except for practical music examination, an L (deferred) will appear in place of a grade if the request is approved. The grade obtained in the deferred examination will replace the grade of L (deferred) on the official transcript.

Deferred examinations in academic courses without a final exam during the official exam period are given at the discretion of the instructor. A deferred examination in a Music practical examination will be held during the next examination period.

Deferred examinations in academic courses are normally held during the March Reading Break for Fall term deferrals and in August for Winter Term deferrals. See the [Exams website](#) for more information. **It is the student's responsibility to check the date, time, and place of the deferred examination.**

A mark of L (deferred) not cleared by early May makes the student ineligible for in-course scholarships.

Students who are unable to write a deferred exam must contact the Music Student Affairs Office immediately to initiate a withdrawal from the deferred exam. Deferred examinations cannot be written at a later date. If the withdrawal is not approved, a final grade of J (absent) will be entered and will count as a zero in the TGPA/CGPA.

10.7.12.2 Supplementals

Supplemental examinations in Music academic courses may be given at the discretion of the instructor. A student who receives a mark below 30% in a course is not permitted to take a supplemental examination but must repeat the course. Students are subject to a supplemental exam fee if the request is approved. See the Exams website mcgill.ca/exams/dates/supdefer for more information.

10.7.12.3 Reassessments and Rereads

Students may request reassessments of term work or rereads of final exams. In either case, students should first consult the instructor for clarification on an assessment and to request a possible grade adjustment if deemed eligible. If a satisfactory conclusion cannot be reached, students may contact the Student Affairs Office (studentaffairs.music@mcgill.ca) in writing to apply for a reassessment. A formal re-evaluation will be conducted by a qualified and impartial evaluator. A fee may be charged for a reread or reassessment.

Students are subject to the following rules when applying for a reassessment or reread:

- Grades may either be raised or lowered as a result of a reread/reassessment; the final course grade following a reread/reassessment takes precedence, whether it is higher or lower.
- If the resulting grade remains the same or is lowered, a fee will be charged; consult the [Student Accounts website](#) for fee details.
- If the reread/reassessment leads to a higher grade, no fee will be charged.

Students must submit a reread/reassessment request by the following deadlines:

- March 31 of the subsequent year for fall courses
- July 31 of the same year for winter courses
- November 30 of the same year for summer courses



Note: No late applications for rereads/reassessments will be accepted.

10.7.13 Graduation Requirements

1. Completion of all courses and proficiency requirements as specified in the candidate's program. Students registered in two programs must fulfil all requirements for both programs. A minimum grade of C (or higher, depending on the program) must be achieved in all required courses, all complementary 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 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.

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./B.Ed. Bachelor of Music and Bachelor of Education Concurrent Program](#)).

The Department also offers a Minor in Music Composition, a Minor in Music Education, a Minor in Music Entrepreneurship, a Minor in Music History, and a Minor in Music Theory to students who seek to place their work in a larger context, as well as a Minor in Musical Applications of Technology and a Minor in Musical Science and Technology to Music students and to students from other faculties.

For each program, all courses listed are required courses unless otherwise indicated.

10.8.1.1 Bachelor of Music (B.Mus.) - Major Composition (124 credits)

The Bachelor of Music (B.Mus.); Major in Composition program offers students a solid grounding in the basics of classical music composition for instruments and voices, with or without electronics. This is achieved through lecture courses and tutorials (private composition lessons in the third and fourth years of the program). The study of topics related to music theory helps to hone students' compositional technique, while the study of topics related to music history helps to develop students' critical thinking skills. Free elective courses allow students either to focus on an area of secondary interest as a minor degree, or to pursue a broader range of course offerings, either within or outside the Schulich School of Music. To ensure consistent performance throughout their program, students are required to achieve a minimum grade of B- in courses given by the Composition Area.

Program Prerequisites - Freshman Program (29 credits)

29 credits selected as described below, in consultation with the Program Adviser:

19 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

19 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1

Required Courses (61 credits)

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)**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

Professional Development

MUPD 235	(1)	Music as a Profession 2
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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

Free Electives (21 credits)

3 credits of non-Music Electives.

18 credits of Free Electives.

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 in Music History requires 124 credits. This program focuses on the place of music in different cultural contexts, the social conditions of musicians, the evolution of performing styles, and the different ways music can project meaning and reflect identity, including the parameters of different musical styles and musical syntax. Exposure to a wide variety of repertoire in the Western classical tradition as well as to jazz and popular idioms.

Music History provides excellent preparation not only for graduate study in musicology, but also for a considerable range of professional training programs including journalism, information sciences, arts administration, and teaching.

The Bachelor of Music (B.Mus.); Major in Music History program requires 92 credits (plus 32 credits for the Freshman requirement for out-of-province students).

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (23 credits)

History

MUHL 286	(3)	Critical Thinking About Music
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Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Performance

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Music Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (36 credits)

History

27 credits selected from Group I, II, and III, with a minimum of 6 credits from each group.

Group I

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 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 389	(3)	Orchestral Literature
MUHL 390	(3)	The German Lied
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 396	(3)	Era of the Modern Piano

Group III

MUHL 314	(3)	Women in Music: A Cross-Cultural Perspective
MUHL 330	(3)	Music and Film
MUHL 362	(3)	Popular Music
MUHL 375	(3)	Introduction to Ethnomusicology
MUHL 393	(3)	History of Jazz
MUHL 529	(3)	Proseminar in Musicology
MUHL 592	(3)	Popular Music Studies

Theory

3 credits from courses with a prefix of MUTH at the 200 or 300 level.

Musicianship

2 credits from:

MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 361	(2)	Topics in Musicianship

MUSP 381 (2) Singing Renaissance Notation

Performance

Basic Ensemble

4 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

Elective Courses (33 credits)

9 credits of non-Music courses.

24 credits of courses to be chosen freely (excluding those with MUAR prefix)

10.8.1.3 Bachelor of Music (B.Mus.) - Major Theory (124 credits)

The Bachelor of Music (B.Mus.); Major Theory program requires 124 credits and features coursework centered in the development of models and methods of musical languages. How specific pieces of music are put together and how this may be generalized to relate to the way other pieces of music are composed. Theory incorporates a combination of writing skills and analysis. Specialization in such subjects as the application of mathematical models to music analysis and Renaissance-style counterpoint.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensembles

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, select all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (25 credits)

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
MUSP 346	(2)	Post-Tonal Musicianship

Music History

MUHL 286	(3)	Critical Thinking About Music
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Performance

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (40 credits)

Theory

6 credits selected from:

MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2

6 credits selected from:

MUTH 321	(3)	Topics in Tonal Analysis
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 426	(3)	Topics in Early Music Analysis
MUTH 541	(3)	Topics in Popular Music Analysis

6 credits selected from:

MUPD 526	(0)	
MUTH 528	(3)	Schenkerian Theory and Analysis

MUTH 529	(3)	Proseminar in Music Theory
MUTH 538	(3)	Mathematical Models for Musical Analysis

12 credits selected from courses not taken above and the following:

MUCO 462	(3)	Advanced Tonal Writing
MUCO 575	(3)	Topics in Composition
MUTH 539	(3)	Topics in Advanced Writing Techniques

Music History

6 credits from courses with a prefix of MUHL or MUPP.

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
MUEN 597	(2)	McGill Symphony Orchestra

Elective Courses (27 credits)

9 credits of non-Music Electives.

18 credits of free Electives.

10.8.1.4 Bachelor of Music (B.Mus.) - Faculty Program Music (123 credits)

The Bachelor of Music (B.Mus.) - Faculty Program Music requires 123 credits and has been designed to accommodate those students who are either undecided about the area of music in which they wish to specialize, or who are interested in a pattern of specialization not provided in the established major programs, or who are interested in combining studies in music with studies in other disciplines. Students registered in the Faculty Program may, with the approval of a staff adviser, design their own programs around specific interests or develop programs with a broader base by incorporating courses from other disciplines and faculties.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite courses

4 credits of Large Ensemble

6 credits of non-Music electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies 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
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MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (23 credits)

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

MUHL 286	(3)	Critical Thinking About Music
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Performance

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (12 credits)

Music History

6 credits from courses with a prefix of MUHL or MUPP at the 300 level or higher.

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 361	(2)	Topics in Musicianship
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

Elective Courses (56 credits)

20 credits of Music Electives.

3 credits of non-Music Electives.

33 credits of Free Electives.

10.8.1.5 Bachelor of Music (B.Mus.) - Faculty Program Music - Jazz (123 credits)

The Bachelor of Music (B.Mus.); Faculty Program in Music; Jazz requires 123 credits and has been designed to accommodate students who trained as jazz musicians and who are interested in a pattern of specialization not provided in the established major programs, or who are interested in combining studies in music with studies in other disciplines. Students registered in the Faculty Program in Music; Jazz may, with the approval of a staff adviser, design their own programs around specific interests or develop programs with a broader base by incorporating courses from other disciplines and faculties.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite courses

4 credits of Large Ensemble

6 credits of non-Music electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests or equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUJZ 160	(3)	Jazz Materials 1
MUJZ 161	(3)	Jazz Materials 2
MUJZ 170	(1)	Jazz Keyboard Proficiency 1

MUJZ 171	(1)	Jazz Keyboard Proficiency 2
MUJZ 187	(3)	Jazz History Survey
MUPD 235	(1)	Music as a Profession 2
MUSP 123	(2)	Jazz Ear Training 1
MUSP 124	(2)	Jazz Ear Training 2

Required Courses (26 credits)

Theory

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

MUJZ 213	(2)	Fundamentals of Jazz Improvisation 1
MUJZ 214	(2)	Fundamentals of Jazz Improvisation 2

Music History

MUHL 286	(3)	Critical Thinking About Music
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Performance

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (12 credits)

Music History

6 credits from courses with a prefix of MUHL or MUPP.

Musicianship

2 credits from:

MUJZ 323	(2)	Advanced Jazz Ear Training
MUSP 324	(2)	Musicianship for Strings
MUSP 330	(2)	Musicianship for Woodwinds
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship for Voice

MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 361	(2)	Topics in Musicianship
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

Elective Courses (53 credits)

20 credits of Music Electives.

3 credits of non-Music Electives.

30 credits of Free Electives

10.8.1.6 Special Prerequisite Courses for M.Mus. in Sound Recording

Students wishing to follow this package of prerequisite courses while registered in the Faculty Program or in any other B.Mus. program must notify the Sound Recording Area Coordinator of their intent to do so.

Special Prerequisite Courses for M.Mus. Sound Recording

Schulich School of Music – Required Courses		Credits (18)
MUCO 260	Instruments of the Orchestra	3
MUMT 250	Music Perception and Cognition	3
MUSR 232	Introduction to Electronics	3
MUSR 300D1/D2	Introduction to Music Recording	6
MUSR 339	Introduction to Electroacoustics	3
Faculty of Science – Required Course		Credits (3)
PHYS 224	Physics of Music	3
One of the following:		Credits (3)
MUMT 202	Fundamentals of New Media	3
MUMT 203	Introduction to Digital Audio	3
One of the following:		Credits (3)
MUMT 302	New Media Production 1	3
MUPD 204	Production for Digital Media 1	3

TOTAL: 27 Credits

For the most up-to-date information about special prerequisite courses for the M.Mus. in Sound Recording, consult the [Sound Recording Program website](#).



Note: Students admitted as a Special Student in the prerequisite package for Sound Recording must meet with the Sound Recording Adviser prior to registration. In order to be considered for admission to the Master of Music in Sound Recording, students must attain a minimum grade of B in all of the above courses and must have a B.Mus. degree with a minimum CGPA of 3.00.

10.8.1.7 Bachelor of Music (B.Mus.) - Minor Composition (18 credits)

The Minor Composition is available to all students with approval (with the exception of students in the Major Composition.) This option will take the place of music and/or free electives.

Required Courses (9 credits)

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

MUIT 250 (3) Guitar Techniques

9 credits selected from courses with a prefix of MUCT, MUGT, MUIT.

Stream III: Secondary Music

6 credits selected from:

MUCT 235	(3)	Vocal Techniques
MUCT 315	(3)	Choral Conducting 1
MUGT 358	(3)	General Music for Adults and Teenagers
MUIT 201	(3)	String Techniques
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 250	(3)	Guitar Techniques
MUIT 302	(3)	Advanced Wind Techniques
MUIT 315	(3)	Instrumental Conducting
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

9 credits selected from courses with a prefix of MUCT, MUGT, MUIT.

10.8.1.9 Bachelor of Music (B.Mus.) - Minor Music Entrepreneurship (18 credits)

This Minor is a collaboration between the Schulich School of Music and Desautels Faculty of Management. It is designed to provide music students with an understanding of how to conceptualize, develop, and manage successful new ventures; manage their careers as performers, music teachers and arts administrators; and develop skills in marketing, fundraising, publicizing, and financing. The program covers the essentials of management and is multidisciplinary and integrative.

This Minor is restricted to B.Mus. students who have completed one year of studies and have a minimum CGPA of 3.0. The minor has limited enrolment; interested students should contact the Music Research Department to apply for admission. 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)

INTG 201	(3)	Integrated Management Essentials 1
INTG 202	(3)	Integrated Management Essentials 2
MGPO 362	(3)	Fundamentals of Entrepreneurship
MUPD 350	(3)	Applied Projects for Musicians

Complementary Courses (6 credits)

3-6 credits chosen from the following:

MUMT 301	(3)	Music and the Internet
MUPD 200	(3)	Introduction to Music Marketing
MUPD 201	(3)	Business Fundamentals for Musicians
MUPD 475*	(3)	Special Project: Professional Development 3
MUPD 499*	(3)	Internship: Music Professional Development
MUSR 200	(3)	Audio Recording Essentials
MUSR 201	(3)	Audio Production Essentials

* To be counted towards the Minor in Music Entrepreneurship, the internship placement or project must be approved as having an entrepreneurial focus.

0-3 credits chosen from the following:

BUSA 465	(3)	Technological Entrepreneurship
MGPO 364	(3)	Entrepreneurship in Practice
MGPO 438	(3)	Social Entrepreneurship and Innovation
PSYC 471	(3)	Human Motivation

10.8.1.10 Bachelor of Music (B.Mus.) - Minor Music History (18 credits)

The Minor Music History is available to all students (with the exception of students in the Major in Music History program). This option will take the place of music electives and/or free electives, as well as history, literature, and performance practice complementary courses.

Complementary Courses

Music History

18 credits selected from MUHL or MUPP prefix at the 300 level or higher.

10.8.1.11 Bachelor of Music (B.Mus.) - Minor Music Theory (18 credits)

The Minor in Music 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 (18 credits)

18 credits from the following:

MUCO 462	(3)	Advanced Tonal Writing
MUCO 575	(3)	Topics in Composition
MUJZ 260	(3)	Jazz Arranging 1
MUJZ 261	(3)	Jazz Arranging 2
MUMT 250	(3)	Music Perception and Cognition
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 251	(3)	Theory and Analysis 4
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2
MUTH 321	(3)	Topics in Tonal Analysis
MUTH 322	(3)	Topics in Post-Tonal Analysis
MUTH 350	(3)	Theory and Analysis 5
MUTH 426	(3)	Topics in Early Music Analysis
MUTH 526	(3)	Methods in Tonal Theory and Analysis
MUTH 528	(3)	Schenkerian Theory and Analysis
MUTH 529	(3)	Proseminar in Music Theory
MUTH 538	(3)	Mathematical Models for Musical Analysis
MUTH 539	(3)	Topics in Advanced Writing Techniques
MUTH 541	(3)	Topics in Popular Music Analysis

10.8.1.12 Bachelor of Music (B.Mus.) - Minor Musical Applications of Technology (18 credits)

The goal of this Minor is to provide instruction in practical and 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.

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.

Required Courses (12 credits)

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

Complementary Courses (6 credits)

6 credits selected from:

MUMT 301	(3)	Music and the Internet
MUMT 303	(3)	New Media Production 2
MUPD 204	(3)	Production for Digital Media 1
MUSR 200	(3)	Audio Recording Essentials
MUSR 232	(3)	Introduction to Electronics
MUSR 300D1*	(3)	Introduction to Music Recording
MUSR 300D2*	(3)	Introduction to Music Recording
MUSR 339	(3)	Introduction to Electroacoustics

*MUSR 300D1/MUSR 300D2 has limited enrollment and should be selected together. This course is generally restricted to students in the Sound Recording Qualifying Year program. Students interested in taking this course should contact the Sound Recording Area Coordinator to seek permission to register.

10.8.1.13 Bachelor of Music (B.Mus.) - Minor Musical Science and Technology (18 credits)

This Minor focuses on interdisciplinary topics in science and technology as 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. This Minor is designed to serve students who already have a good background in the sciences and prior experience with Math and Computer Science courses.

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. Selection is based on previous experience in math, computer programming, and related sciences, expressed interest in the program, and Cumulative Grade Point Average. To apply, submit an online application through the Music website: www.mcgill.ca/music/programs/minor/mst.

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.

Required Courses (15 credits)

15 credits, select all of the following:

MUMT 203	(3)	Introduction to Digital Audio
MUMT 250	(3)	Music Perception and Cognition
MUMT 306	(3)	Music and Audio Computing 1
MUMT 307	(3)	Music and Audio Computing 2
MUMT 501	(3)	Digital Audio Signal Processing

Complementary Courses (3 credits)

3 credits selected from:

MUMT 502	(3)	Senior Project: Music Technology
PHYS 224	(3)	Physics of Music

10.8.2 Department of Performance

The Department offers undergraduate and graduate degree programs leading to the B.Mus., M.Mus., and D.Mus., and diploma programs leading to the L.Mus., Graduate Diploma in Performance, and Graduate Artist Diploma. Programs include regular practical instruction available on all instruments, a comprehensive range of large instrumental and choral ensembles, and a highly developed small ensemble program in all areas of study. The Department's ensembles present a full season of performances on campus and regularly travel for appearances in important North American centres. In recent years, McGill ensembles have performed at Montreal's *Maison symphonique* and *Monument-National*, Toronto's Koerner Hall and Canadian Opera Company, as well as Ottawa's National Arts Centre, Quebec City's *Grand Théâtre*, and New York's Carnegie Hall and Lincoln Center. Many concerts are live-streamed and have been broadcast by the CBC.

Performance specialization is available in: Violin, Viola, Cello, Double Bass, Guitar, Harp, Flute, Oboe, Clarinet, Saxophone, Bassoon, Horn, Trumpet, Trombone, Euphonium, Tuba, Percussion, Piano, Organ, Harpsichord, Voice, Baroque Instruments (Violin, Viola, Cello, Viola da Gamba, Recorder, Flute, Lute, Oboe, Bassoon), and Jazz (Bass, Drums, Flute, Guitar, Piano, Saxophone, Trombone, Trumpet, Vibraphone, Violin, Voice).

For each program, all courses listed are REQUIRED courses unless otherwise indicated.

10.8.2.1 Bachelor of Music (B.Mus.) - Major Performance Piano (125 credits)

The Bachelor of Music; Major Performance (Piano) program provides comprehensive training in the practical and theoretical elements of music. Throughout the program, students receive individual instruction and participate in large and small ensembles.

The Bachelor of Music (B.Mus.) - Major Performance (Piano) program requires 91 credits (plus 34 credits for the freshman requirement for out-of-province students).

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests, and equivalencies that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

Students who have been admitted to a degree or diploma program with keyboard as their principal instrument are exempt from MUSP 170 and MUSP 171; see section on Keyboard Proficiency testing for complete information.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (45 credits)

Performance

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

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

MUHL 286	(3)	Critical Thinking About Music
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Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (20 credits)

Performance

Large Ensemble during the first four terms (2 credits x 4 semesters).

8 credits* from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles

MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

4 credits* from:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 556	(1)	Introduction to Collaborative Piano 1
MUEN 557	(1)	Introduction to Collaborative Piano 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 569	(1)	Tabla Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 581	(1)	Introduction to Ensemble Playing for Pianists
MUEN 582	(1)	Piano Ensembles
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass

* All ensembles courses under MUEN may be taken in multiple terms.

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 355	(2)	Musicianship for Percussion
MUSP 361	(2)	Topics in Musicianship

Music History/Literature/Performance Practice (6 credits)

Selected from courses with a prefix of MUHL or MUPP at the 300-level or above.

3 credits from courses with a MUHL or MUPP prefix

Elective Courses (26 credits)

3 credits of Non-Music Electives

23 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.2 Bachelor of Music (B.Mus.) - Major Performance Voice (123 credits)

The Bachelor of Music; Major Performance (Voice) program focuses on vocal pedagogy, repertoire coaching, linguist, theory, and musicology to strengthen artistry in professional singing. In addition to recitals and masterclasses, students are encouraged to take advantage of diverse solo performance opportunities in Opera, Early Music Ensembles, Song Interpretation, a comprehensive Choral Program, the annual McGill Concerto and Wirth Vocal Competitions, and outside venues in Montreal.

The Bachelor of Music (B.Mus.) - Major Performance (Voice) program requires 91 credits (plus 32 credits for the Freshman requirement for out-of-province students).

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams, ensembles, and voice coaching.

Program Prerequisites - Freshman Program (32 credits)

32 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
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 (44 credits)

Performance

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

Diction

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

Prior to, or concurrent with registration in the corresponding Diction courses, the Voice Major must furnish evidence of having completed English Second Language courses, ITAL 205D1/ITAL 205D2, GERM 202, and FRSL 207, or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements or by extra university courses.

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4

MUTH 350 (3) Theory and Analysis 5

Musicianship

MUSP 240 (2) Musicianship Training 3

MUSP 241 (2) Musicianship Training 4

Music History/Literature

MUHL 286 (3) Critical Thinking About Music

Professional Development

MUPD 235 (1) Music as a Profession 2

Complementary Courses (27 credits)

Performance

10 credits* of complementary performance selected from:

MUEN 454 (2) Introductory Opera Repertoire Experience

MUEN 496 (2) Opera Studio

MUEN 563 (2) Jazz Vocal Workshop

MUEN 569 (1) Tabla Ensemble

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

* All ensemble courses under MUEN may be taken in multiple terms.

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)

Musicianship

2 credits from

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornammentation
MUSP 361	(2)	Topics in Musicianship
MUSP 381	(2)	Singing Renaissance Notation

Music History/Literature/Performance Practice

6 credits from:

MUHL 377	(3)	Baroque Opera
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied

Elective Courses (20 credits)

3 credits of non-Music Electives

17 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.3 Bachelor of Music (B.Mus.) - Major Performance (Orchestral Instruments) (125 credits)

The Bachelor of Music; Major Performance (Orchestral Instruments) program provides comprehensive training in the practical and theoretical elements of music. Throughout the program, students receive individual instruction, participate in chamber music and other small ensembles, and perform in large ensembles such as the McGill Symphony Orchestra, Contemporary Music Ensemble, and Wind Orchestra.

The Bachelor of Music (B.Mus.) - Major Performance (Orchestral Instruments) program requires 91 credits (plus 34 credits for the Freshman requirement for out-of-province students).

Special Requirements:

1. Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.
2. Students majoring in violin, viola, or cello must commence basic ensemble training with two terms of MUEN 565 String Quartet Seminar.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1

MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (35 credits)

Performance

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

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

MUHL 286	(3)	Critical Thinking About Music
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Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (33 credits)

Performance

12 credits*(2 credits per term; as assigned by audition) from Large ensembles:

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

4 credits *(1 credit per term; as assigned by audition) from small ensembles:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 569	(1)	Tabla Ensemble
MUEN 580	(1)	Early Music Ensemble
MUEN 598	(1)	Percussion Ensembles

* All ensemble courses under MUEN may be taken in multiple terms.

9 credits chosen from:

MUEN courses at the 400 or 500 level (maximum of 4 credits)

MUIN 269	(1)	Classical Concerto Exam
MUPG 229	(1)	Traditional Drumming 1: Rudiments
MUPG 300	(2)	Music Performance Strategies
MUPG 325	(2)	Improvisation for String Players
MUPG 326	(2)	Introduction to String Pedagogy
MUPG 328	(1)	Introduction to Percussion Pedagogy
MUPG 329	(1)	Traditional Drumming 2: Hand Drumming
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 571	(1)	Free Improvisation 1
MUPG 572D1	(.5)	Free Improvisation 2
MUPG 572D2	(.5)	Free Improvisation 2

(Percussionists must include MUEN 569, MUPG 328, MUPG 329)

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 355	(2)	Musicianship for Percussion
MUSP 361	(2)	Topics in Musicianship

Music History/Literature/Performance Practice

6 credits of courses with a MUHL or MUPP prefix

Percussionists must include:

MUHL 392	(3)	Music since 1945
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Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.4 Bachelor of Music (B.Mus.) - Major Early Music Performance (Baroque Violin, Viola, Cello, Viola da Gamba, Flute, Recorder, Oboe, Organ, Harpsichord and Early Brass Instruments) (125 credits)

The Bachelor of Music; Major Early Music Performance program provides comprehensive training in historical performance practice and in performance on a period instrument. The program combines individual lessons and ensembles with the study of historical approaches to performance in its various activities - workshops, master classes, guest lectures, and research projects.

The Bachelor of Music (B.Mus.); Major Early Music Performance program requires 91 credits (plus 34 credits for the Freshman requirement for out-of-province students).

Special Requirements:

Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Applicants who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1

MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (41 credits)

Performance

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

Theory

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

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History/Literature/Performance Practice

MUHL 286	(3)	Critical Thinking About Music
MUPP 381	(3)	Topics in Performance Practice

Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (27 credits)

Performance

12 credits*(2 credits per term; as assigned by audition) from large ensembles:

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

4 credits* (1 credit per term)

MUEN 569	(1)	Tabla Ensemble
MUEN 580	(1)	Early Music Ensemble

* All ensemble courses under MUEN may be taken in multiple terms.

6 credits from:

Baroque Instruments

MUEN prefix - maximum 4 credits

MUPG 473	(1)	Special Project in Performance
MUPG 474	(2)	Special Project in Performance
MUPG 475	(3)	Special Project in Performance

OR

Harpsichord

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 372D1	(1)	Continuo
MUPG 372D2	(1)	Continuo

OR

Organ

MUEN prefix - maximum 2 credits

MUPG 272D1	(2)	Continuo
MUPG 272D2	(2)	Continuo
MUPG 473	(1)	Special Project in Performance
MUPG 474	(2)	Special Project in Performance

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 361	(2)	Topics in Musicianship
MUSP 381	(2)	Singing Renaissance Notation

History/Literature/Performance Practice

3 credits from:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.5 Bachelor of Music (B.Mus.) - Major Early Music Performance (Voice) (126 credits)

The Bachelor of Music; Major Early Music Performance (Voice) program provides comprehensive training in historical performance practice and in singing period repertoire. The program combines individual lessons and ensembles with the study of historical approaches to performance in its various activities - workshops, master classes, guest lectures, and research projects.

The Bachelor of Music (B.Mus.); Major Early Music Performance (Voice) program requires 92 credits (plus 34 credits for the Freshman requirement for out-of-province students).

Special Requirements:

1. Continuation in the program requires a minimum grade of B- in practical instruction/exams and ensembles.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of Assigned Small Ensemble

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses.

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2

Required Courses (54 credits)

Performance

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 282	(1)	BMus Performance Examination 1
MUIN 300	(2)	Voice Coaching 1
MUIN 301	(2)	Voice Coaching 2
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

Diction

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

Prior to, or concurrent with registration in the corresponding Diction courses, the Bachelor of Music; Major Early Music Performance (Voice) must furnish evidence of having completed English Second Language courses, ITAL 205D1/ITAL 205D2, GERM 202, and FRSL 207, or their equivalent. This language requirement may be fulfilled by appropriate high school or CEGEP courses, or as part of the non-music and/or free elective requirements above, or by extra university courses.

Theory

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5
MUTH 426	(3)	Topics in Early Music Analysis

Musicianship

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History/Literature/Performance Practice

MUHL 286	(3)	Critical Thinking About Music
MUPP 381	(3)	Topics in Performance Practice

Professional Development

MUPD 235	(1)	Music as a Profession 2
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Complementary Courses (15 credits)

Performance

10 credits* of complementary performance selected from:

MUEN 454	(2)	Introductory Opera Repertoire Experience
MUEN 496	(2)	Opera Studio
MUEN 553	(1)	Vocal Chamber Ensemble
MUEN 563	(2)	Jazz Vocal Workshop
MUEN 569	(1)	Tabla Ensemble
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

* All ensemble courses under MUEN may be taken in multiple terms.

Musicianship

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 353	(2)	Musicianship for Voice
MUSP 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 361	(2)	Topics in Musicianship
MUSP 381	(2)	Singing Renaissance Notation

Music History

3 credits from:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography

Elective Courses (23 credits)

3 credits of non-Music Electives

20 credits of Free Electives (may include 2 credits of courses with a MUEN prefix)

10.8.2.6 Bachelor of Music (B.Mus.) - Major Performance Jazz (126 credits)

The Bachelor of Music; Major in Performance Jazz provides comprehensive training for jazz musicians. The curriculum includes jazz theory and harmony, keyboard, history, performance practice, improvisation, composition, and arranging. Throughout the program, students receive individual instruction and participate in jazz orchestras, ensembles, and combos.

Special Requirements:

1. Students majoring in Jazz Performance must achieve a minimum grade of B- in all Jazz courses and Practical Instruction/Exams, including Jazz Combo and Ensembles.
2. Students are permitted to study with the same teacher for the assigned practical instruction for a maximum of two consecutive years.

Program Prerequisites - Freshman Program (34 credits)

34 credits selected as described below, in consultation with the Program Adviser:

22 credits of Prerequisite Courses

2 credits of MUEN 570 Jazz Combo

4 credits of Large Ensemble

6 credits of Non-Music Electives

Prerequisite Courses

22 credits, all of the courses below:

Note: Students who can demonstrate through auditions, placement tests, or equivalencies that they have mastered the material in any of the courses listed below, will be exempt from them and may proceed to more advanced courses.

Incoming jazz guitarists and pianists are automatically exempt from MUJZ 170 and MUJZ 171.

MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUJZ 160	(3)	Jazz Materials 1
MUJZ 161	(3)	Jazz Materials 2
MUJZ 170	(1)	Jazz Keyboard Proficiency 1
MUJZ 171	(1)	Jazz Keyboard Proficiency 2
MUJZ 187	(3)	Jazz History Survey
MUPD 135	(1)	Music as a Profession 1
MUSP 123	(2)	Jazz Ear Training 1
MUSP 124	(2)	Jazz Ear Training 2

Required Courses (53 credits)

Performance

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

Small Ensemble

MUEN 570* (1) Jazz Combo

*This course is taken in four semesters for 4 credits.

Jazz Improvisation

Instrumental majors:

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

OR

Vocal majors:

MUJZ 225 (3) Jazz Vocal Improvisation 1
 MUJZ 226 (3) Jazz Vocal Improvisation 2
 MUJZ 325 (3) Jazz Vocal Improvisation 3
 MUJZ 326 (3) Jazz Vocal Improvisation 4

Jazz Theory

MUJZ 260 (3) Jazz Arranging 1
 MUJZ 261 (3) Jazz Arranging 2
 MUJZ 340 (3) Jazz Composition 1
 MUJZ 341 (3) Jazz Composition 2

History/Literature/Performance Practice

MUHL 286 (3) Critical Thinking About Music
 MUJZ 493 (3) Jazz Performance Practice

Professional Development

MUPD 235 (1) Music as a Profession 2

Complementary Courses (14-18 credits)

Performance

Small Ensemble

MUEN 570* (1) Jazz Combo

*Taken in two semesters for 2 credits.

OR

MUEN 574* (1) Afro-Cuban/Brazilian Jazz Combo

*Taken in two semesters for 2 credits.

Large Ensemble

Note: students playing Rhythm Section instruments (piano, guitar, bass, drums, vibraphone) can substitute 4 credits of large ensemble with free electives).
8-12 credits from*:

* All ensemble courses under MUEN may be taken in multiple terms.

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

Advanced Jazz

Instrumental majors:

4 credits from either MUJZ 440 and MUJZ 441, or MUJZ 461D1/D2:

MUJZ 440	(2)	Advanced Jazz Composition 1
MUJZ 441	(2)	Advanced Jazz Composition 2
MUJZ 461D1	(2)	Advanced Jazz Arranging
MUJZ 461D2	(2)	Advanced Jazz Arranging

OR

Vocal majors:

MUJZ 425	(2)	Jazz Vocal Repertoire 1
MUJZ 426	(2)	Jazz Vocal Repertoire 2

Elective Courses (21-25 credits)

3 credits of non-Music Electives.

18-22 credits of Free Electives (may not include courses with a MUEN prefix); students playing Rhythm Section instruments may take up to 22 Free Electives.

10.8.2.7 Bachelor of Music (B.Mus.) - Minor Conducting (18 credits)

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 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945

Choral Stream

4 credits from the following:

MUPG 316D1	(2)	Introduction to Choral Conducting
MUPG 316D2	(2)	Introduction to Choral Conducting

Large Ensembles

4 credits from the following:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 593	(2)	Choral Ensembles

6 credits from the following:

MUCO 261	(3)	Orchestration 1
MUCT 235	(3)	Vocal Techniques

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 384	(3)	Romantic Music
MUHL 385	(3)	Early Twentieth-Century Music
MUHL 387	(3)	Opera from Mozart to Puccini
MUHL 388	(3)	Opera After 1900
MUHL 390	(3)	The German Lied
MUHL 391	(3)	Canadian Music
MUHL 392	(3)	Music since 1945
MUHL 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

10.8.2.8 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
MUPG 272D1*	(2)	Continuo
MUPG 272D2*	(2)	Continuo

* must be taken by Harpsichord students

3 credits from the following:

MUHL 377	(3)	Baroque Opera
MUHL 380	(3)	Medieval Music
MUHL 381	(3)	Renaissance Music
MUHL 382	(3)	Baroque Music
MUHL 383	(3)	Classical Music
MUHL 395	(3)	Keyboard Literature before 1750
MUHL 591D1	(1.5)	Paleography
MUHL 591D2	(1.5)	Paleography
MUTH 202	(3)	Modal Counterpoint 1
MUTH 204	(3)	Tonal Counterpoint 1
MUTH 302	(3)	Modal Counterpoint 2
MUTH 304	(3)	Tonal Counterpoint 2
MUTH 426	(3)	Topics in Early Music Analysis

6 credits from the following (for Voice students only):

MUIN 302	(1.5)	Early Music Minor Repertoire Coaching 1
MUIN 303	(1.5)	Early Music Minor Repertoire Coaching 2
MUIN 304	(1.5)	Early Music Minor Repertoire Coaching 3
MUIN 305	(1.5)	Early Music Minor Repertoire Coaching 4

OR

6 credits from the following (for Instrumental students only):

MUIN 270	(3)	Practical Lessons Performance Minor 1
MUIN 271	(3)	Practical Lessons Performance Minor 2
MUIN 273	(1.5)	Practical Lessons Performance Minor 3
MUIN 274	(1.5)	Practical Lessons Performance Minor 4
MUIN 275	(1.5)	Practical Lessons Performance Minor 5
MUIN 276	(1.5)	Practical Lessons Performance Minor 6
MUIN 302	(1.5)	Early Music Minor Repertoire Coaching 1
MUIN 303	(1.5)	Early Music Minor Repertoire Coaching 2
MUIN 304	(1.5)	Early Music Minor Repertoire Coaching 3
MUIN 305	(1.5)	Early Music Minor Repertoire Coaching 4

10.8.2.9 Bachelor of Music (B.Mus.) - Minor Jazz Arranging and Composition (18 credits)

The Minor in Jazz Arranging and Composition allows B.Mus. students who are not Jazz majors to explore the jazz idiom with an emphasis on arranging composition and jazz theory. In theory courses, students are trained in fundamental jazz materials, compose jazz tunes, and develop analytical skills; in arranging courses, they gain practical experience by writing for various small and large jazz ensembles; and in the jazz history course, they explore the repertoire and history of the jazz tradition. The program is aimed primarily at classical students who love jazz and who have already acquired facility with rudimentary classical materials.

Required Courses (18 credits)

MUJZ 160	(3)	Jazz Materials 1
MUJZ 161	(3)	Jazz Materials 2
MUJZ 187	(3)	Jazz History Survey

MUJZ 260	(3)	Jazz Arranging 1
MUJZ 261	(3)	Jazz Arranging 2
MUJZ 262	(3)	Applied Jazz Theory

10.8.2.10 Bachelor of Music (B.Mus.) - Minor Jazz Performance (18 credits)

The Minor in Jazz Performance offers students the opportunity to develop abilities in instrumental and vocal jazz through a combination of theoretical and practical courses.

Required Courses (18 credits)

MUEN 570*	(1)	Jazz Combo
MUIN 273	(1.5)	Practical Lessons Performance Minor 3
MUIN 274	(1.5)	Practical Lessons Performance Minor 4
MUJZ 160	(3)	Jazz Materials 1
MUJZ 161	(3)	Jazz Materials 2
MUJZ 213	(2)	Fundamentals of Jazz Improvisation 1
MUJZ 214	(2)	Fundamentals of Jazz Improvisation 2
MUJZ 262	(3)	Applied Jazz Theory

* 2 credits in MUEN 570.

10.8.2.11 Licentiate in Music (L.Mus.) - Major Performance Piano (93 credits)

The Licentiate in Music (L.Mus.) Major Performance Piano is a 93-credit program.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (52 credits)

MUIN 250	(6)	L.Mus. Practical Instruction 1
MUIN 251	(6)	L.Mus. Practical Instruction 2
MUIN 252	(4)	L.Mus. Performance 1 Examination
MUIN 333	(0)	Piano Techniques 2
MUIN 350	(6)	L.Mus. Practical Instruction 3
MUIN 351	(6)	L.Mus. Practical Instruction 4
MUIN 352	(4)	L.Mus. Performance 2 Examination
MUIN 369	(0)	Concerto
MUIN 433	(0)	Piano Techniques 3
MUIN 450	(4)	L.Mus. Practical Instruction 5
MUIN 451	(4)	L.Mus. Practical Instruction 6
MUIN 452	(8)	L.Mus. Performance 3 Examination
MUPG 541	(2)	Senior Piano Seminar 1
MUPG 542	(2)	Senior Piano Seminar 2

Complementary Performance (14 credits)

Large Ensemble – during the first four terms (2 credits x 4 semesters).

14 credits selected as follows:

8 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 572	(2)	Cappella Antica
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra
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

6 credits from:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 556	(1)	Introduction to Collaborative Piano 1
MUEN 557	(1)	Introduction to Collaborative Piano 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 578	(1)	Song Interpretation 1
MUEN 579	(1)	Song Interpretation 2
MUEN 581	(1)	Introduction to Ensemble Playing for Pianists
MUEN 582	(1)	Piano Ensembles
MUEN 584	(1)	Studio Accompanying
MUEN 585	(1)	Sonata Masterclass

Complementary Musicianship (2 credits)

2 credits from:

MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 361	(2)	Topics in Musicianship

Required Courses (25 credits)

25 credits of required courses selected as follows:

9 credits of Theory

10 credits of Musicianship

6 credits of History

Theory

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

10.8.2.12 Licentiate in Music (L.Mus.) - Major Performance (All Instruments except Piano, Voice and Jazz) (93 credits)

The Licentiate in Music (L.Mus.) Major Performance in All Instruments except Piano, Voice, and Jazz is a 93-credit program.

Ensemble Requirements:

1. Students majoring in violin, viola, or cello must commence their assigned ensembles with four terms of string quartets.
2. Violin Majors will be required to complete two terms of ensemble playing on viola.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams and ensembles.
2. Students must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

48 credits selected as follows:

MUIN 250	(6)	L.Mus. Practical Instruction 1
MUIN 251	(6)	L.Mus. Practical Instruction 2
MUIN 252	(4)	L.Mus. Performance 1 Examination
MUIN 350	(6)	L.Mus. Practical Instruction 3
MUIN 351	(6)	L.Mus. Practical Instruction 4
MUIN 352	(4)	L.Mus. Performance 2 Examination
MUIN 450	(4)	L.Mus. Practical Instruction 5
MUIN 451	(4)	L.Mus. Practical Instruction 6
MUIN 452	(8)	L.Mus. Performance 3 Examination

Complementary Performance (18 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

18 credits selected as follows:

12 credits from:

MUEN 563	(2)	Jazz Vocal Workshop
MUEN 565	(2)	String Quartet Seminar
MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra

MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

Assigned Small Ensemble - during every term of enrolment as a full-time or part-time student.

6 credits from:

MUEN 540	(.5)	Chamber Music Project 1
MUEN 541	(.5)	Chamber Music Project 2
MUEN 560	(1)	Chamber Music Ensemble
MUEN 562	(1)	Guitar Ensemble
MUEN 580	(1)	Early Music Ensemble
MUEN 585	(1)	Sonata Masterclass
MUEN 589	(1)	Woodwind Ensembles
MUEN 591	(1)	Brass Consort
MUEN 598	(1)	Percussion Ensembles

Required Courses (25 credits)

25 credits of required courses selected as follows:

9 credits of Theory

10 credits of Musicianship

6 credits of History

Theory

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

Complementary 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 354	(2)	Introduction to Improvisation and Ornamentation
MUSP 355	(2)	Musicianship for Percussion
MUSP 361	(2)	Topics in Musicianship
MUSP 381	(2)	Singing Renaissance Notation

10.8.2.13 Licentiate in Music (L.Mus.) - Major Performance Voice (105 credits)

The Licentiate in Music (L.Mus.) Major Performance Voice is a 105-credit program.

Special Requirements:

1. Continuation in the program requires a minimum grade of A- in practical instruction/exams, ensembles, and voice coaching.
2. Candidates must take the L.Mus. Performance 1 Examination at the end of their first year of study and the L.Mus. Performance 2 and 3 Examinations in each of the next two years if they hope to complete the program in the normal length of time.

Required Performance (48 credits)

MUIN 250	(6)	L.Mus. Practical Instruction 1
MUIN 251	(6)	L.Mus. Practical Instruction 2
MUIN 252	(4)	L.Mus. Performance 1 Examination
MUIN 350	(6)	L.Mus. Practical Instruction 3
MUIN 351	(6)	L.Mus. Practical Instruction 4
MUIN 352	(4)	L.Mus. Performance 2 Examination
MUIN 450	(4)	L.Mus. Practical Instruction 5
MUIN 451	(4)	L.Mus. Practical Instruction 6
MUIN 452	(8)	L.Mus. Performance 3 Examination

Complementary Performance (21 credits)

Large Ensemble Training – during every term of enrolment as a full-time or part-time student.

12 credits from:

MUEN 496	(2)	Opera Studio
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
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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 361	(2)	Topics in Musicianship
MUSP 381	(2)	Singing Renaissance Notation

Required Courses (34 credits)**Diction (9 credits)**

MUPG 209	(1)	Introduction to Lyric Diction
MUPG 210	(2)	Italian Diction
MUPG 211	(2)	French Diction
MUPG 212	(2)	English Diction
MUPG 213	(2)	German Diction

Theory (9 credits)

MUTH 150	(3)	Theory and Analysis 1
MUTH 151	(3)	Theory and Analysis 2
MUTH 250	(3)	Theory and Analysis 3

Musicianship (10 credits)

MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

History (6 credits)

MUHL 186	(3)	Western Musical Traditions
MUHL 286	(3)	Critical Thinking About Music

10.8.2.14 Special Prerequisite Courses for M.Mus. in Performance
Master of Music (M.Mus.) Performance: Early Music (Thesis)

MUPD 560 (1) Introduction to Research Methods in Music

3 credits from the following:

MUHL 377 (3) Baroque Opera
 MUHL 380 (3) Medieval Music
 MUHL 381 (3) Renaissance Music
 MUHL 382 (3) Baroque Music
 MUHL 383 (3) Classical Music
 MUHL 395 (3) Keyboard Literature before 1750
 MUPP 381 (3) Topics in Performance Practice
 MUTH 426 (3) Topics in Early Music Analysis

Fortepiano students:

MUHL 366 (3) The Era of the Fortepiano

Harpsichord students:

MUPG 272D1/D2 (4) Continuo
 MUPG 372D1/D2 (2) Continuo

Organ/Lute students:

MUPG 272D1/D2 (4) Continuo

Voice students:

MUPG 210 (2) Italian Diction (*or equivalent*)
 MUPG 211 (2) French Diction (*or equivalent*)
 MUPG 212 (2) English Diction (*or equivalent*)
 MUPG 213 (2) German Diction (*or equivalent*)

Master of Music (M.Mus.) Performance: Orchestral Instruments and Guitar (Thesis)

MUPD 560 (1) Introduction to Research Methods in Music

Master of Music (M.Mus.) Performance: Collaborative Piano (Thesis)

MUPD 560 (1) Introduction to Research Methods in Music

4 credits from the following:

MUPG 210 (2) Italian Diction
 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

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) mcgill.ca/dise/teachercert/music is an integrated 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. Applicants to B.Ed. Music should choose Faculty of Education (Music) as the faculty which offers the program when submitting an application for an undergraduate program. 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 mcgill.ca/music/programs/bmus/bmus-bed. The concurrent program is 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. Applicants to the B.Mus./B.Ed. concurrent program should select Schulich School of Music as the faculty when applying for this program.

Students in the concurrent B.Mus./B.Ed. or B.Ed. Music who receive an F or J in any Field Experience course are placed in Unsatisfactory Standing. Although they may complete their term, they are required to withdraw from the program.

10.8.3.1 Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits)

The Concurrent B.Mus./B.Ed. combines the Bachelor of Music (Major Music Education) with the Bachelor of Education (Music Elementary and Secondary).

Requirements are normally completed in five years and lead to certification as a school teacher in the Province of Quebec. Out-of-province students (or those without Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the Concurrent program) are required to complete 170 credits, normally in six years.

Applicants who already hold a Bachelor of Music degree from a North American university should apply directly to the Bachelor of Education in Music Elementary and Secondary (B.Ed. Music) program offered by the Faculty of Education <https://www.mcgill.ca/dise/progs/music>.

Notes:

1. Students majoring in Music Education in the jazz stream may take Jazz Arranging 1 (MUJZ 260) with the permission of the instructor, per available space in the course, and if they have the prerequisite, MUJZ 161. Alternatively, they may be asked to register for a different jazz stream course upon the recommendation of the Jazz Area Chair and/or the Music Education Area Chair.

2. In addition to meeting prerequisites/co-requisites for MUCO 230 or MUCO 261, students must obtain the relevant instructor's permission, per available space in the course, prior to registration. MUCO 260 is waived as a prerequisite for MUCO 230.

The B.Mus. Major Music Education program in the Schulich School of Music focuses on the development of prospective music educators as musicians. This is achieved both through core music history, theory, musicianship, and performance courses, as well as through different instrumental, vocal, and conducting techniques courses. Laboratory experiences provide an opportunity to develop facility with basic music rehearsing/teaching techniques, with emphasis on the ability to diagnose and correct technical and musical problems. The B.Ed. Music Elementary and Secondary program in the Faculty of Education focuses on the development of the musicians as educators. This is achieved through courses in educational foundations, music pedagogy, pedagogical support, and a practicum component comprised of four field experiences and supporting professional seminars.

The components of the 137-credit Concurrent Bachelor of Music - Major Music Education and Bachelor of Education - Music Elementary and Secondary (excluding the 33-credit Freshman Program) are as follows:

58 credits in Education

71 credits in Music

8 free elective credits

Program Prerequisites - Freshman Program

33 credits

Prerequisite Courses

33 credits distributed as follows:

4 credits (2 credits per term) Basic Ensemble Training

6 credits of non-Music electives

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement tests that they have mastered the material in any of the courses below will be exempt from them and may proceed to more advanced courses. First-year students enrolled in the Bachelor of Music program who have completed the Quebec Diploma of Collegial Studies (Diplôme d'études collégiales) in a Music concentration or equivalent, or students transferring from other universities or colleges, who have successfully completed a course in the history of Western music will be exempted from the first-year Western Musical Traditions requirement (MUHL 186).

MUHL 186	(3)	Western Musical Traditions
MUIN 180	(3)	BMus Practical Lessons 1
MUIN 181	(3)	BMus Practical Lessons 2
MUPD 135	(1)	Music as a Profession 1
MUPD 235	(1)	Music as a Profession 2
MUSP 140	(2)	Musicianship Training 1
MUSP 141	(2)	Musicianship Training 2
MUSP 170	(1)	Musicianship (Keyboard) 1
MUSP 171	(1)	Musicianship (Keyboard) 2
MUTH 150	(3)	Theory and Analysis 1

MUTH 151 (3) Theory and Analysis 2

Required Music Components (50 credits)

50 credits of required Music courses distributed as follows:

25 credits of Music Education

9 credits of Theory

3 credits of Composition/Arranging

4 credits of Musicianship

3 credits of Music History

6 credits of Performance

Music Education

25 credits:

MUCT 235	(3)	Vocal Techniques
MUGT 215	(1)	Basic Conducting Techniques
MUGT 354	(3)	Music for Children
MUGT 358	(3)	General Music for Adults and Teenagers
MUGT 401	(3)	Issues in Music Education
MUIT 202	(3)	Woodwind Techniques
MUIT 203	(3)	Brass Techniques
MUIT 204	(3)	Percussion Techniques
MUIT 356	(3)	Jazz Instruction: Philosophy and Techniques

Theory

9 credits:

MUTH 250	(3)	Theory and Analysis 3
MUTH 251	(3)	Theory and Analysis 4
MUTH 350	(3)	Theory and Analysis 5

Composition/Arranging

3 credits:

MUCO 230	(3)	The Art of Composition
MUCO 261	(3)	Orchestration 1
MUJZ 260	(3)	Jazz Arranging 1

Musicianship

4 credits:

MUSP 240	(2)	Musicianship Training 3
MUSP 241	(2)	Musicianship Training 4

Music History

3 credits:

MUHL 286	(3)	Critical Thinking About Music
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Performance

6 credits:

MUIN 280	(2.5)	BMus Practical Lessons 3
MUIN 281	(2.5)	BMus Practical Lessons 4
MUIN 283	(1)	BMus Concentration Final Examination

Complementary Music Components (21 credits)

21 credits of complementary Music courses distributed as follows:

9 credits of Music Education

2 credits of Musicianship

6 credits of Music History

4 credits of Performance

Music Education

3 credits, one of:

MUIT 201	(3)	String Techniques
MUIT 250	(3)	Guitar Techniques

3 credits, one of:

MUCT 315	(3)	Choral Conducting 1
MUIT 315	(3)	Instrumental Conducting

3 credits of any course with a prefix of MUIT or MUGT.

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 361	(2)	Topics in Musicianship
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
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MUEN 572	(2)	Cappella Antica
MUEN 573	(2)	Baroque Orchestra
MUEN 587	(2)	Cappella McGill
MUEN 590	(2)	McGill Wind Orchestra
MUEN 592	(2)	Chamber Jazz Ensemble
MUEN 593	(2)	Choral Ensembles
MUEN 594	(2)	Contemporary Music Ensemble
MUEN 595	(2)	Jazz Ensembles
MUEN 597	(2)	McGill Symphony Orchestra

Electives (8 credits)

8 credits of free electives

Required Education Courses (46 credits)

EDEA 206	(1)	1st Year Professional Seminar
EDEA 208	(1)	Second Professional Seminar (Music)
EDEA 407	(3)	Final Year Professional Seminar Music
EDEA 442	(3)	Methods in Music Education 1
EDEA 472	(3)	Methods in Music Education 2
EDEC 215	(0)	English Exam for Teacher Certification
EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEC 260	(3)	Philosophical Foundations
EDES 350	(3)	Classroom Practices
EDFE 205	(2)	First Field Experience (Music)
EDFE 208	(3)	Second Field Experience (Music)
EDFE 308	(8)	Third Field Experience (Music)
EDFE 407	(7)	Fourth Field Experience (Music)
EDPE 300	(3)	Educational Psychology
EDPI 341	(3)	Instruction in Inclusive Schools

Required Indigenous Studies Course

EDEC 233	(3)	Indigenous Education
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or any other course with Indigenous Studies content approved by the Faculty of Education.

Complementary Education Courses (9 credits)

9 credits distributed as follows:

3 credits from:

EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEC 262	(3)	Media, Technology and Education
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MUGT 301 ()

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.

10.9 Practical Subjects

All returning students must submit a [Practical Instruction Request Form](#) by May 15 of each year if they wish to register for practical instruction and/or voice coaching lessons in the following academic year. Practical Instruction refers to courses with the MUIN prefix. All private lessons are subject to a practical instruction fee in addition to the per-credit tuition rate assigned for each course.

Students are entitled to a maximum number of terms of lessons, which varies by program. Additional terms of practical instruction beyond the term quota can be requested but will be subject to supplementary lesson fees, as are lessons on a secondary instrument. See [section 10.6.7: Tuition Fees, Practical Instruction Fees, and Lesson Quotas](#) for more information.

Students are not permitted to only register for practical instruction in any given semester. Students are expected to register for other required academic course(s) for the program in the same semester for which they are taking practical instruction.



Note: With the exception of B.Mus. and L.Mus. students in the graduating year, part-time students will be charged a Music Supplementary Practical Instruction fee in addition to the per-credit fee and the Music Practical Instruction fee. See [section 10.6.7: Tuition Fees, Practical Instruction Fees, and Lesson Quotas](#) for more information.

10.9.1 Practical Assignment and Lessons

10.9.1.1 Registration/Withdrawal

Registration for practical instruction (MUIN 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 withdraw from practical instruction on Minerva; they must notify the Department of Performance of their intention to withdraw by emailing teacherpreference.music@mcgill.ca. For deadlines, refer to [section 10.7.10: Course Changes & Withdrawal](#).

10.9.1.2 Assignment of Teachers

The assignment of students to teachers for practical instruction is the responsibility of the Chair of the Department of Performance. Student requests for specific teachers will be taken into consideration whenever possible.

It is understood that returning students will study with the same teacher unless prior arrangements have been made with the Chair of the Department in consultation with the teachers concerned. **However, those students who do not return the Online Practical Instruction Request (including Voice Coaching) by the specified deadline cannot be guaranteed the teacher of their choice, and they will be assessed a late fee of \$50.** Teacher assignments will be made soon after the period of enrolment and confirmed during the first week of classes. Following this assignment, it is the students' responsibility to contact their teachers and arrange lesson times.

Individual lessons missed as a consequence of the instructor's absence will be made up at the mutual convenience of the instructor and student. Lessons missed as a result of the student's absence will be made up only if notice of cancellation has been given 48 hours in advance, or if a doctor's certificate is produced and prior notice of the cancellation is given.



Note: Students who are taking practical instruction in fulfilment of the requirements for any degree or diploma are required to study with teachers on the staff of the Schulich School of Music.

10.9.2 Examinations and Goals in Practical Subjects

Different levels of achievement are required of students depending upon the program of study for which they are registered. These levels are defined in part by the difficulty of material and length of the program required at the various examinations, and in part by the examiners' assessment of how well the student plays this material.

In general, there are five categories of practical study:

- Concentration Study
- Major Study
- Licentiate Study
- Postgraduate Study
- Elective Study

10.9.2.1 Concentration Study

Students in the:

- B.Mus. Faculty Program
- Faculty Program – Jazz concentration or
- Major in Music Composition, Music Education, Music History, or Music Theory

are obliged to present one examination in order to fulfil the practical requirement of these programs: the Concentration Final Examination (MUIIN 283). Grades of C or higher in all practical requirements are mandatory for continuation in the program.

The sequence would normally be:

Concentration Study Sequence

MUIIN 180	BMus Practical Lessons 1
MUIIN 181	BMus Practical Lessons 2
MUIIN 280	BMus Practical Lessons 3
MUIIN 281	BMus Practical Lessons 4
MUIIN 283	BMus Concentration Final Examination

Examination:

BMus Concentration Final Examination (MUIIN 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.

10.9.2.2 Major Study

A student majoring in Performance must show talent for this field before being admitted to the program. The practical requirement for these programs comprises examinations and recitals as specified in the programs.

10.9.2.2.1 B.Mus. Major in Performance, Major in Early Music Performance, and Major in Jazz Performance

The sequence would normally be:

Major Study Sequence

MUIIN 180	BMus Practical Lessons 1
MUIIN 181	BMus Practical Lessons 2

Major Study Sequence

MUIN 280	BMus Practical Lessons 3
MUIN 281	BMus Practical Lessons 4
MUIN 282	BMus Performance Examination 1
MUIN 380	BMus Practical Lessons 5
MUIN 333	Piano Techniques 2 (pianists only)
MUIN 381	BMus Practical Lessons 6
MUIN 382	BMus Performance Examination 2
MUIN 480	BMus Practical Lessons 7
MUIN 433	Piano Techniques 3 (pianists only)
MUIN 481	BMus Practical Lessons 8
MUIN 482	BMus Performance Examination 3
MUIN 369	Concerto (mandatory test for pianists)

Examinations:

BMus Performance Examination 1 (MUIN 282)

Purpose: To assess the student's progress in the practical area and determine whether or not the student may continue in the program. The panel may recommend to the Department that the student be: a) asked to withdraw from the program; b) permitted to continue to the BMus Performance Examination 2.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The final mark for the examination is the average of the marks submitted by the examination panel.

BMus Performance Examination 2 (MUIN 382)

Purpose: To assess the student's ability to perform a program of sufficient length and suitable repertoire as specified in the requirements for each instrument.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The final mark for the examination is the average of the marks submitted by the examination panel.

BMus Performance Examination 3 (MUIN 482)

Purpose: All recitals are to be performed in public before a jury and are intended to demonstrate technical mastery of their instrument/voice as well as an understanding of different musical styles appropriate to their level of study.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The final mark for the examination is the average of the marks submitted by the examination panel.

10.9.2.3 Licentiate Study

Students must show talent for this field before being admitted to the program. Grades of A- or higher in all practical requirements are mandatory for continuation in the program.

10.9.2.3.1 L.Mus. Performance

The sequence would normally be:

Licentiate Study Sequence

MUIN 250	L.Mus. Practical Instruction 1
MUIN 251	L.Mus. Practical Instruction 2
MUIN 252	L.Mus. Performance 1 Examination
MUIN 350	L.Mus. Practical Instruction 3
MUIN 333	Piano Techniques 2 (pianists only)
MUIN 351	L.Mus. Practical Instruction 4

Licentiate Study Sequence

MUIN 352	L.Mus. Performance 2 Examination
MUIN 450	L.Mus. Practical Instruction 5
MUIN 433	Piano Techniques 3 (pianists only)
MUIN 451	L.Mus. Practical Instruction 6
MUIN 452	L.Mus. Performance 3 Examination
MUIN 369	Concerto (mandatory test for pianists)

Examinations:

L.Mus. Performance 1 Examination (MUIN 252)

Purpose: To assess the student's progress in the practical area and determine whether or not the student may continue in the program. The panel may recommend to the Department that the student be: a) asked to withdraw from the program; or b) permitted to continue to the L.Mus. Performance 2 Exam.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The final mark for the examination is the average of the marks submitted by the examination panel.

L.Mus. Performance 2 Examination (MUIN 352)

Purpose: The recital is a public presentation, before a jury, intended to demonstrate competence in public solo performance. Non-keyboard performers and singers must use appropriate accompaniment.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The final mark for the examination is the average of the marks submitted by the examination panel.

L.Mus. Performance 3 Examination (MUIN 452)

Purpose: All recitals are to be performed in public before a jury and are intended to demonstrate technical mastery of their instrument/voice as well as an understanding of different musical styles appropriate to their level of study.

Panel: A minimum of three staff members, one of whom may be the student's teacher. The panel is appointed by the Chair of the Department of Performance.

Distribution of Marks: The final mark for the examination is the average of the marks submitted by the examination panel.

10.9.2.4 Postgraduate Study

Master of Music (M.Mus.), Graduate Artist Diploma (Gr.Art.Dip.), Graduate Diploma in Performance (Gr.Dip.), and Doctor of Music (D.Mus.) candidates should consult [Schulich School of Music > Graduate > Browse Academic Units & Programs > : Schulich School of Music](#) for program requirements.

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 is worth 2 credits for each approved term, which 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](#)) may apply when students apply for elective practical instruction.

For more information about elective study, contact the Music Students Affairs office at studentaffairs.music@mcgill.ca.

10.10 Practical Examinations

Details of specific examination requirements for each area:

- Brass
- Early Music
- Guitar
- Harp
- Jazz

- Organ
- Percussion
- Piano
- Strings
- Voice
- Woodwinds

are available on the area's program webpage at mcgill.ca/music/programs or may be obtained from the Department of Performance office.

10.10.1 Application for Examination

Examinations and recitals must be presented in one of the official final examination periods. See mcgill.ca/importantdates for Fall and Winter; Summer graduands see special procedures in the *Special procedures for September Exams (Graduating Students Only)* section below.

All students wishing to present a required practical examination should register for the exam by the course drop/add deadline. Registrations *after* that date will be accepted with permission of the Department of Performance up to the deadlines stated below.

Upon registration, students are then responsible for:

1. reviewing their Area's *Examination Requirements* and, in consultation with their assigned practical instructor, deciding on appropriate material to perform at the examination;
2. completing the online *Examination Application Form* to submit the details pertinent to their examination level by the deadline specified below.

Applications may be withdrawn without penalty any time up to the withdrawal deadline given below. Permission to withdraw from a practical examination after the withdrawal deadline will normally be granted only in the case of illness. A medical certificate must be submitted to the Department of Performance Office within seven days after the withdrawal request has been received. Withdrawal from a practical examination on other than medical grounds must be authorized by the Chair of the Department of Performance.

Examination Period	Online Application Deadline*	Withdrawal Deadline
Fall	October 15, 2022	November 15, 2022
Winter	February 1, 2023	March 1, 2023

Special procedures for September Exams (Graduating Students Only):

The September examination period is available only for Summer graduands. No supplemental examinations will be given at this time. Registration for September examinations is not available on Minerva. Contact the Department of Performance Office for information.

Examination Period	Application*/Recital Program Deadline	Withdrawal Deadline
September 7-9, 2022	May 31, 2022	August 1, 2022

* Applications received after these deadlines will only be accepted with special permission from the Chair of the Department of Performance, and on payment of a \$50 late application fee.

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.

11 Faculty of Science

11.1 About the Faculty of Science

The Faculty of Science aims to be a leader in finding solutions critical to economic and human development, including 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 an education that prepares them for a lifetime of accomplishment. Not only will these new recruits perform key research work, they will also take on an equally important task: teaching the scientists and leaders of tomorrow. Over the next decade, many of these dynamic young academics will become world leaders in their disciplines. The process has already begun in fields as diverse as neuroscience, astrophysics, green chemistry, and earth system science.

Moreover, the Faculty is transforming the way science is taught, with an increased emphasis on student/professor interaction and outreach. This approach emphasizes hands-on research at the undergraduate level and a more personal, one-on-one style between professors and students that traditionally did not begin until the graduate level.

The Faculty counts undergraduate students as one of its key strengths. The calibre of McGill's undergraduates is very high—they boast the highest average entrance grades in Canada—and the Faculty understands that these brilliant young minds are the key to its future.

11.2 History of the Faculty of Science

The study of science at McGill goes back almost two centuries, when the lower campus was a rough and muddy cow pasture and the University struggled to establish itself. In 1855, the job of principal was given to a Nova Scotia-born geologist, John William Dawson. When he arrived at McGill, Dawson laid out plans for walks and roads, and at his own expense arranged the planting of trees on the entrance avenue. More importantly, Dawson worked diligently to transform McGill from a poorly equipped provincial college into one of the best scientific institutions in the world. In 1882, he successfully lobbied for the creation of the Royal Society of Canada and brought international renown to McGill.

In the century and a half since Dawson steered the Faculty of Science onto the path of excellence, the Faculty has received numerous honours for its groundbreaking research, including Nobel prizes to ten Science alumni or Faculty members, as well as over 100 fellowships in the Royal Society of Canada. More importantly, McGill's scientists have made the world a better place in which to live and have provided answers to the deepest mysteries facing humanity. Examples of McGill's breakthroughs include the world's first effective anti-retroviral HIV drug, the theory explaining photosynthesis, and the discovery of the fastest-spinning pulsar in the known universe.

McGill's Faculty of Science has a long tradition of discovery and innovation that no other Canadian university, and only a handful of U.S. schools can match. Our long tradition of scientific leadership, and the illustrious roster of McGill researchers who changed the world—Sir Ernest Rutherford, Harriet Brooks, Ronald Melzack, Bernard Belleau, Leo Yaffe, and Vicky Kaspi, to name only a few—are key attributes.

Founded upon a deep commitment to excellence, the Faculty of Science continues to attract the best scientists in the world. We remain committed to Dawson's vision of bringing the best to the world, whether it's investigating ways to heal the Earth's fragile ecosystem, finding cleaner, greener ways to synthesise vital chemicals, or pushing back the boundaries of our understanding of the Universe.

11.3 Programs and Teaching in Science

The Faculty of Science is committed to providing outstanding teaching and research facilities. The Faculty draws on its involvement in cutting-edge research to ensure teaching excellence at the undergraduate level. Professors who spearhead projects that change people's understanding of the world teach regularly at the undergraduate level. Also, research-based independent study courses offer you the opportunity to contribute to your professors' work, rather than just learn about it.

In an effort to supplement classroom learning with real life experience, the Faculty of Science has increased opportunities for undergraduate students to participate in fieldwork. All B.Sc. programs can include an internship component. This is on top of the many undergraduate students the Faculty hires for Work Study projects and other research programs. As a McGill Science student, you have an opportunity to get involved in the structuring of your own education.

The Faculty of Science offers programs leading to the degree of Bachelor of Science (B.Sc.). Admission is selective; fulfilment of the minimum requirements does not guarantee acceptance. Admission criteria are described in the *Undergraduate Admissions Guide*, found at mcgill.ca/undergraduate-admissions/apply.

There are also two Diploma programs offered in Science. The *Diploma in Environment*, in [Bieler School of Environment > Undergraduate > Browse Academic Programs > section 7.7.8.1: Diploma \(Dip.\) Environment \(30 credits\)](#), is a 30-credit program available to holders of a B.Sc. or B.A. or equivalent. The *Diploma in Meteorology* is a one-year program available to holders of a degree in Mathematics, Engineering, Physics, and other appropriate disciplines who wish to qualify for a professional career in Meteorology; see [section 11.13.3: Atmospheric and Oceanic Sciences \(ATOC\) > section 11.13.3.9: Diploma \(Dip.\) Meteorology \(30 credits\)](#). All credits for these diplomas must be completed at McGill.

Finally, the Faculties of Arts and Science jointly offer the Bachelor of Arts and Science (B.A. & Sc.), which is described in [Bachelor of Arts & Science](#).

11.4 About the Faculty of Science (Undergraduate)

11.4.1 Location

Dawson Hall
 853 Sherbrooke Street West
 Montreal QC H3A 0G5
 Canada
 Telephone: 514-398-5442
 Faculty website: mcgill.ca/science
 Science Office for Undergraduate Student Advising (SOUSA): mcgill.ca/science/undergraduate/advice/sousa

The Science Office for Undergraduate Student Advising (SOUSA) is located in Dawson Hall, room 405. SOUSA serves students in the B.Sc. and B.A. & Sc. degrees.

11.4.2 McGill's Faculty of Science

- **McGill's second-largest faculty:** Consisting of 15 schools and departments focused on teaching, research, and outreach — including the Redpath Museum, Canada's oldest museum of natural history — and 20 research centres and institutes
- **Students:** Over 4,000 undergraduate and over 1,000 graduate students
- **Over 250 faculty members**, including tenured and tenure-track professors
- Has ties with **ten Nobel laureates**: seven were Faculty of Science graduates, while three winners were either Science faculty members or staff
- **Canadian leader** in astrophysics and cosmology, climate change and extreme weather, green chemistry, life sciences (developmental biology), earth systems science, biodiversity and conservation, nanoscience, social neuroscience, sustainability science, and artificial intelligence
- Offers students a variety of **Field Study** opportunities, which take students out of the traditional classroom environment and into a world of strong interdisciplinary, international, and research-based education. Students have opportunities to work with local and indigenous communities, governmental agencies, and NGOs in places as far-ranging as East Africa, Barbados, Panama, and the Arctic
- Offers the **Reginald Fessenden Professorships and Prizes in Science Innovation**, the first such endowed program in Canada, to encourage and support the commercialization of research in science conducted by world-class scholars
- **McGill's most multidisciplinary faculty**, which conducts teaching and research in collaboration with many of the University's other faculties, including Medicine, Engineering, Music, Arts, Education, and Management
- State-of-the-art facilities including the **\$120 million McGill Life Sciences Research Complex**, consisting of the **Francesco Bellini Building** and **Cancer Research Building**, which are physically linked to the McIntyre Medical and Stewart Biology Buildings
- Established Canada's first comprehensive **Earth System Science Program**, to study and research new forms of energy and gain a better understanding of climate change and natural hazards
- The **Tomlinson Project in University-Level Science Education (T-PULSE)** conducts groundbreaking university-level science education research, and develops innovative and effective teaching methods for science instructors
- The **Office of Science Education** pioneers new approaches to educational development by working with students, staff, and faculty to increase the use of evidence-based pedagogy in the Faculty of Science.
- The **Science Undergraduate Research Awards** encourage top students to pursue research projects during their degree program

11.4.3 Administrative Officers

Dean

R. Bruce Lennox

Associate Dean (Academic)

Axel Hundemer

Associate Dean (Student Affairs)

Anthony Mittermaier

Chief Academic Adviser

Pete Barry

Associate Dean (Graduate Education)

Laura Nilson

Associate Dean (Research)

John Stix

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.

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 Associate Dean, Student Affairs.

The Committee on Student Standing (CSS) will consider appeals of the Associate Dean's decisions. For information about CSS, see the Associate Dean, Student Affairs' assistant.

11.5 Faculty Admission Requirements

For information about admission requirements for the B.Sc., please refer to the *Undergraduate Admissions Guide*, found at mcgill.ca/undergraduate-admissions/apply.

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 Student Handbook under Degree Transfers at mcgill.ca/science/undergraduate/handbook.

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: mcgill.ca/students/transferecredit.

11.6.1.2 Equivalencies for Non-Basic Science Courses

Note that equivalencies for some non-basic science courses, such as CHEM 212 and CHEM 222 and PSYC 204, are granted on a per-CEGEP basis. In some cases, a grade greater than the minimum passing grade may be required. For more information about equivalences for non-basic Science courses, please consult: mcgill.ca/students/transferecredit/prospective/cegep.

If the CEGEP and/or course is not listed on this website, you should refer to your SOUSA adviser at mcgill.ca/science/undergraduate/advice/sousa.

11.6.1.3 Readmission after Interruption of Studies for a Period of Five Consecutive Years or More

If you are readmitted after interrupting your studies for a period of five consecutive years or more, you may be required to complete a minimum of 60 credits and satisfy the requirements of a program. In this case, a new CGPA will be calculated. The Associate Dean, Student Affairs for Science, in consultation with the appropriate department, may approve a lower minimum for students who had completed 60 credits or more before interrupting their studies.

If you are readmitted after a period of absence, you are subject to the program and degree requirements in effect at the time of readmission. The Associate Dean, Student Affairs for Science, in consultation with the department, may approve exemption from any new requirements.

11.6.2 Residency Requirement

To obtain a B.Sc. degree, you must satisfy the following residency requirements: a minimum of 60 credits of courses used to satisfy the B.Sc. degree requirements must be taken and passed at McGill, exclusive of any courses completed as part of the Science Freshman program; see [section 11.13.1: B.Sc. Freshman Program](#). At least two-thirds of all departmental program requirements (Honours, Major, Core Science Components, or Minor) must normally be completed at McGill not including courses completed in a prior McGill degree. Exceptionally, students in major concentrations or interfaculty or honours programs who pursue an approved Study Away or Exchange program may, with prior approval from both their department and the Associate Dean, Student Affairs, Faculty of Science, be exempted from the two-thirds rule. In addition, some departments may require that their students complete specific components of their program at McGill.

The residency requirement for diploma programs is 30 credits completed at McGill.

11.6.3 Time and Credit Limit for the Completion of the Degree

If you need 96 or fewer credits to complete your degree requirements, you are expected to complete your degree in no more than eight terms after your initial registration for the degree.

If you are a student in the Freshman Program, you become subject to these regulations one year after your initial registration. If you want to exceed this time limit, you must seek permission of the Associate Dean, Student Affairs, of the Faculty of Science.

If you are registered in the B.Sc., you are expected to complete the requirements of your program and your degree within 120 credits. You will receive credit for all courses (subject to degree regulations) taken up to and including the semester in which you obtain 120 credits. If you want to remain at McGill beyond that semester, you must also seek permission of the Associate Dean, Student Affairs, Faculty of Science. Permission for exceeding the time and/or credit limits will normally be granted only for valid academic reasons, such as a change of program (subject to departmental approval) and part-time status. If permission is granted, you will receive credit only for required and complementary courses necessary to complete your program requirements.

Students who have been granted Advanced Standing for the International Baccalaureate, Advanced Placement examinations, GCE A-Levels, French Baccalaureate, and other qualifications may complete 120 credits following admission, as per the university regulations described in [University Regulations and Resources > Student Records > section 1.5.6.1: Advanced Standing Transfer Credits](#).

11.6.4 Program Requirements

The Faculty of Science offers a vast array of study and research opportunities at the undergraduate level, and it is very important that you familiarize yourself with all the alternatives open to you before deciding on a program of study. For an overview of programs offered in the B.Sc., see the Faculty of Science Programs of Study at mcgill.ca/science/programs.

11.6.4.1 Liberal, Major, and Honours Programs

As a Science student, if you need 96 or fewer credits to complete your degree requirements, you are required to select your courses in each term with a view to timely completion of your degree and program requirements. You must register in one of the following types of departmental programs leading to the degree of Bachelor of Science:

11.6.4.1.1 Liberal Programs

Liberal programs provide students with the opportunity to study the core of one science discipline along with a breadth component from another area of science or from many other disciplines. In a liberal program, you must complete a Core Science Component (CSC) (45–50 credits), plus a Breadth Component (at least 18 credits). The requirements for the Core Science Components are given under departmental sections of this publication whenever applicable.

For the Breadth Component, you must complete one of the following:

- Minor Program (18–24 credits) – one of the programs listed in [section 11.10.2: Minor Programs](#).
- Arts Minor or Major Concentration (18 or 36 credits) – one of the programs listed in [section 11.10.5: Arts Major and Minor Concentrations Open to Science Students](#).
- A Core Science Component in a second area (45–50 credits) – at least 24 credits must be distinct from the courses used to satisfy the primary Core Science Component. Note that a second Core Science Component can be selected from any of the Science groups.

11.6.4.1.2 Major Programs

Major programs are more specialized than liberal programs and are usually centred on a specific discipline or department.

11.6.4.1.3 Honours Programs

Honours programs typically involve an even higher degree of specialization, often include supervised research, and require students to maintain a high academic standard. Although honours programs are specially designed to prepare you for graduate studies, graduates of the other degree programs may also be admissible to many graduate schools. If you intend to pursue graduate studies in your discipline, you should consult a departmental adviser regarding the appropriate selection of courses in your field.

11.6.4.2 Minor and Minor Concentration Programs

In addition to the liberal, major, and honours degree programs, as a student in the Faculty of Science, you may select a minor or approved minor concentration program. These are coherent sequences of courses in a given discipline or interdisciplinary area that may be taken in addition to the courses required for the degree program.

Science minors consist of up to 24 credits.

Arts minor concentrations consist of 18 credits.

A minimum of 18 new credits must be completed in the Minor or Minor concentration.

For a list of "Minor Programs," see [section 11.10.2: Minor Programs](#); for minor concentrations that are approved for Science students, see [section 11.10.5: Arts Major and Minor Concentrations Open to Science Students](#).

11.6.4.3 Other Second Programs

In addition to a major or honours program, you may pursue a second major or honours program, or an Arts major concentration program. Each major or honours program must contain a minimum of 36 credits that are distinct from the courses used to satisfy the other program.

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 mcgill.ca/science/undergraduate/programs/bsc-global.

11.6.4.4.2 Internship Program Designation

All B.Sc. programs can include an internship component. For more details, students should refer to [section 11.12: Science Internships and Field Studies](#) and mcgill.ca/science/undergraduate/internships-field/internships.

11.6.4.5 Bieler School of Environment

The Faculty of Science is one of the four faculties in partnership with the Bieler School of Environment. For more information, see [Bieler School of Environment](#).

11.6.5 Course Requirements

All required and complementary courses used to fulfil program requirements, including the basic Science requirements, must be completed with a grade of C or better. If you fail to obtain a Satisfactory grade in a required course, you must either pass the supplemental examination in the course or do additional work for a supplemental grade, if these options are available, or 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 a required course is failed a second time, you must appeal to the Associate Dean, Student Affairs, Faculty of Science for permission to take the course a third time. If permission is denied by the Associate Dean and/or by the Committee on Student Standing on appeal, you must withdraw from the program. If the failed course is a complementary course required by the program, you may choose to replace it with another appropriate 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.

Full details of the course requirements for all programs offered are given in each unit's section together with the locations of departmental advisory offices, program directors, and telephone numbers should further information be required.

11.6.5.1 Course Overlap

You will not receive additional credit towards your degree for any course that overlaps in content with a course for which you have already received credit at McGill, CEGEP, at another university, or Advanced Placement exams, Advanced Level results, International Baccalaureate Diploma, or French Baccalaureate. It is your responsibility to consult with a Faculty Adviser in *Arts OASIS*, the *Science Office for Undergraduate Advising* (SOUSA), or the department offering the course as to whether or not credit can be obtained and to be aware of exclusion clauses specified in the course description in this publication. Please refer to the following website for specific information about Advanced Standing credits and McGill course exemptions: mcgill.ca/transferecredit.

Sometimes the same course is offered by two different departments. Such courses are called "double-prefix" courses. When such courses are offered simultaneously, you should take the course offered by the department in which you are obtaining your degree. For example, in the case of double-prefix courses CHEM XYZ and PHYS XYZ, Chemistry students take CHEM XYZ and the Physics students take PHYS XYZ. If a double-prefix course is offered by different departments in alternate years, you may take whichever course best fits your schedule.



Note for Arts Students: Credit for computer courses offered by the School of Computer Science is governed by rules specified in each individual course description.



Note for Science and Bachelor of Arts and Science students:

Credit for statistics courses offered by faculties other than Arts and Science requires the permission of the Associate Dean (Student Affairs), Science, except for students in the B.Sc. Major in Environment, who may take required statistics courses in the Faculty of Agricultural and Environmental Sciences necessary to satisfy their program requirements.

Credit for computer courses offered by faculties other than Science requires the permission of the Associate Dean, Student Affairs, Science, and will be granted only under exceptional circumstances.

For Arts, Science, and Bachelor of Arts and Science students

Credit for statistics courses will be given with the following stipulations:

- Credit will be given for **only one** of the following introductory statistics courses: AEMA 310, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, MATH 203, MGCR 271, MGCR 273, POTH 204, PSYC 204, SOCI 350.
- Credit will be given for **only one** of the following intermediate statistics courses: AEMA 411, ECON 227D1/D2, ECON 257D1/D2, GEOG 351, MATH 204, PSYC 305, SOCI 461, with the exception that you may receive credit for both PSYC 305 and ECON 227D1/D2 or ECON 257D1/D2.
- Students who have already received credit for MATH 324 or MATH 357 will **not** receive credit for any of the following: AEMA 310, AEMA 411, BIOL 373, ECON 227D1/D2, ECON 257D1/D2, GEOG 202, GEOG 351, MATH 203, MATH 204, MGCR 271, MGCR 273, PSYC 204, PSYC 305, SOCI 350.
- For 500-level statistics courses not listed above, students must consult a program/department adviser to ensure that no significant overlap exists. Where such overlap exists with a course for which the student has already received credit, credit for the 500-level course will not be allowed.
- PSYC 204 may not be taken if a grade of 75% was received in an equivalent course completed at CEGEP.

11.6.5.2 Courses Outside the Faculties of Arts and Science

As a student in the Faculty of Science, you should consult the statement of regulations for taking courses outside the Faculties of Arts and of Science (see below). A list of approved/not-approved courses in other faculties is posted on the SOUSA website (mcgill.ca/science/undergraduate/handbook). You may take courses on the approved list and may not, under any circumstances, take courses on the not-approved list for credit. Requests for permission to take courses that are not on either list should be addressed to the Associate Dean, Student Affairs for Science.

The regulations are as follows:

- You may take only 6 credits per year, up to 18 credits in all, of courses outside the Faculties of Arts and of Science.
- Courses offered "in the Faculty of Science" or "in the Faculty of Arts" are found in the eCalendar [All Courses](#) search, when filtered by "Faculty of Science" or by "Faculty of Arts."
- Courses in other faculties that are considered as taught by Science (e.g., BIOT, EXMD, and PHAR) are so designated as offered by the "Faculty of Science" in the eCalendar [All Courses](#) search.
- Courses in Music are considered as outside the Faculties of Arts and of Science, except MUAR courses, which are considered Arts courses.
- All courses listed in the Religious Studies (RELG) section are considered courses in Arts and Science except for courses restricted to B.Th. or S.T.M. students and courses that require permission from the Chair of the B.Th. Committee.
- Students should consult the list of restricted courses outside of the Faculties of Arts and of Science on the SOUSA website (mcgill.ca/science/undergraduate/handbook).
- You must have the necessary prerequisites and permission of the instructor for such courses.
- Credit for computer and statistics courses offered by faculties other than Arts and Science require the permission of the Associate Dean, Student Affairs for Science and will be granted only under exceptional circumstances.
- If you use Minerva to register for a course, and it exceeds the specified limitations or it is not approved, the course will be flagged for no credit after the course change period.

- Credit will not be given for any “how to” courses offered by other faculties that are intended to provide you with only practical or professional training in specific applied areas. Examples include courses that teach the use of certain computer packages (databases, spreadsheets, etc.) or computer languages (SQL, COBOL, FORTRAN, etc.); machine shop or electronic shop courses; technical drawing courses; and professional practice courses.
- As a student in the **Bieler School of Environment**, you may exceed the 18-credit limit for courses outside the Faculties of Arts and of Science, provided that all such courses are necessary to complete your program of study.
- As a student in the **Major in Software Engineering**, you may exceed the 18-credit limit for courses outside the Faculties of Arts and of Science, provided that all such courses are necessary to complete your program of study.
- As a student in the B.Sc. Liberal Program taking a **Major Concentration in Music**, you may exceed the 18-credit limit for courses outside the Faculties of Arts and of Science, provided that all such courses are necessary to complete your program of study, up to a maximum of 36 Music credits.
- The 18-credit limit applies to students taking the **Minor in Nutrition**; equivalent courses in Science should be taken instead of courses in the Faculty of Agricultural and Environmental Sciences.

11.6.5.3 Correspondence, Distance Education, or Web-based Courses

As a Science student, you may obtain transfer credit for correspondence, distance education, or web-based courses if you receive prior approval from the appropriate McGill department for the course content **and** prior approval from the Associate Dean, Student Affairs, Science, for the method of delivery and evaluation. Courses taught through distance education from institutions other than McGill will only be considered for transfer credits under the following conditions:

- The course is given by a government-accredited, degree-granting institution acceptable to McGill.
- The course counts for credit toward degrees granted at the institution giving the course.
- The combined total of regular course credits and distance education course credits do not exceed the permitted maximum number of credits per term according to Faculty regulations.
- Courses taught through distance education may not be used to complete program requirements, except on an individual basis when serious, documented circumstances warrant it.

11.6.5.4 Courses in English as a Second Language (ESL)

ESL courses are only open to students whose primary language is not English and who have studied for fewer than five years in English-language secondary institutions. As a student in the B.Sc., you may take a maximum of 12 credits, including academic writing courses for non-anglophones, from the list of ESL courses published in the Handbook under Course Restrictions mcgill.ca/science/undergraduate/handbook/.

11.6.5.5 First-Year Seminars: Registration

Registration for First-Year Seminars is limited to students in their first year of study at McGill, i.e., newly admitted students in U0 or U1. These courses are designed to provide a closer interaction with professors and better working relations with peers than is available in large introductory courses. These seminars 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-Year Seminars offered by the Faculty of Arts are also open to Science students. For a complete listing, please consult [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.1: First-Year Seminars](#).

11.6.5.6 Course Credit Weight

The credit assigned to a particular course should reflect the amount of effort it demands of you. Normally, one credit will represent three hours total work per week for one term—including a combination of lecture hours, other contact hours, such as laboratory periods, tutorials, and problem periods, as well as personal study time.

11.7 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. Quebec students with a Diploma of Collegial Studies in Science have normally taken the equivalent of, and are therefore exempt from, the 100-level basic science courses in Biology, Chemistry, Mathematics, and Physics. Such students may also be exempt from some 200-level courses. If you are a student with satisfactory results in International Baccalaureate, French Baccalaureate, Advanced Levels, and Advanced

Placement tests, you may also be exempt from some or all of the Science Freshman courses. Regardless of how many advanced standing credits you have received, you are responsible for ensuring that your freshman science program requirements are met. To facilitate program planning, you must contact your Science SOUSA advisor for course approval before registering for your first year courses. For a detailed description of advising and registration procedures, you should refer to [University Regulations & Resources > Undergraduate > section 1.11: Undergraduate Advising](#) and [section 1.3: Registration](#); the [website for newly admitted undergraduate students](#); the SOUSA website at mcgill.ca/science/undergraduate/handbook#first-year; 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 must consult a SOUSA adviser in the Science Office for Undergraduate Student Advising to obtain advice and approval of your course selection. For a detailed description of advising and registration procedures as a Freshman student, refer to the [website for newly admitted undergraduate students](#), and to the SOUSA website at mcgill.ca/science/undergraduate/handbook#first-year.

Advising for all returning students takes place in March for the upcoming academic year. For more information, refer to the SOUSA website at mcgill.ca/science/undergraduate/advice/sousa.

11.8 Freshman Interest Groups

Freshman Interest Groups (FIGs) are groups of approximately 25 U0 students and U1 students in their first semester, in the B.Sc. or B.A. & Sc., led by a Faculty of Science staff member and an upper-year undergraduate student. They meet once every two weeks in the Fall semester (or weekly for half the semester) to discuss a wide range of topics, such as science in the news, program choices, undergraduate research opportunities, or just aspects of life in Montreal. The purpose of a FIG is to ease the transition to McGill and Montreal and to provide you an opportunity to interact with a professor and with other U0 students in a small group. FIGs carry no credit and there is no charge. For more information and to see how to register, refer to "Your first year" in the Science Undergraduate Handbook mcgill.ca/science/undergraduate/handbook/.

11.9 Examinations

Students should refer to [University Regulations and Resources > Undergraduate > section 1.6: Examinations: General Information](#) for information about final examinations and deferred examinations. Note that for the Faculty of Science, [University Regulations and Resources > Undergraduate > Examinations: General Information > Final Examinations > section 1.6.3.1: Final Examinations: University Regulations Concerning Final Examinations](#) applies to courses up to and including the 500 level.

The exam schedules are posted on the McGill website, mcgill.ca/exams, normally one month after the start of classes for the Tentative Exam Schedule, and two months after the start of classes for the Final Examination Schedule.

Students are warned not to make travel arrangements to leave Montreal prior to the scheduled end of any examination period.

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: 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 \(45 credits\)](#)

11.10.1.1.2 Major Programs

- Anatomy and Cell Biology: [section 11.13.2.5: Bachelor of Science \(B.Sc.\) - Major Anatomy and Cell Biology \(67 credits\)](#)
- Biochemistry: [section 11.13.4.5: Bachelor of Science \(B.Sc.\) - Major Biochemistry \(64 credits\)](#)
- Biology: [section 11.13.5.8: Bachelor of Science \(B.Sc.\) - Major Biology \(59 credits\)](#)
- Biology – Quantitative Biology: [section 11.13.5.9: Bachelor of Science \(B.Sc.\) - Major Biology - Quantitative Biology \(73 credits\)](#)
- Microbiology and Immunology: [section 11.13.23.5: Bachelor of Science \(B.Sc.\) - Major Microbiology and Immunology \(66 credits\)](#)
- Pharmacology: [section 11.13.29.5: Bachelor of Science \(B.Sc.\) - Major Pharmacology \(67 credits\)](#)
- Physiology: [section 11.13.31.5: Bachelor of Science \(B.Sc.\) - Major Physiology \(65 credits\)](#)
- Psychology: [section 11.13.33.8: Bachelor of Science \(B.Sc.\) - Major Psychology \(54 credits\)](#)

11.10.1.1.3 Honours Programs

- Anatomy and Cell Biology: [section 11.13.2.6: Bachelor of Science \(B.Sc.\) - Honours Anatomy and Cell Biology \(73 credits\)](#)
- Biochemistry: [section 11.13.4.6: Bachelor of Science \(B.Sc.\) - Honours Biochemistry \(73 credits\)](#)
- Biology: [section 11.13.5.11: Bachelor of Science \(B.Sc.\) - Honours Biology \(72 credits\)](#)
- Biology – Quantitative Biology: [section 11.13.5.12: Bachelor of Science \(B.Sc.\) - Honours Biology - Quantitative Biology \(79 credits\)](#)
- 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: Bachelor of Science \(B.Sc.\) - Honours Physiology \(75 credits\)](#)
- Psychology: [section 11.13.33.9: Bachelor of Science \(B.Sc.\) - Honours Psychology \(60 credits\)](#)

11.10.1.2 Bio-Physical-Computational Sciences Group

11.10.1.2.1 Major Programs

- Biology and Mathematics: [section 11.13.5.10: Bachelor of Science \(B.Sc.\) - Major Biology and Mathematics \(76 credits\)](#)
- Computer Science and Biology: [section 11.13.9.11: Bachelor of Science \(B.Sc.\) - Major Computer Science and Biology \(74 credits\)](#)
- Physiology and Mathematics: [section 11.13.31.6: Bachelor of Science \(B.Sc.\) - Major Physiology and Mathematics \(79 credits\)](#)
- Physiology and Physics: [section 11.13.31.7: Bachelor of Science \(B.Sc.\) - Major Physiology and Physics \(82 credits\)](#)

11.10.1.2.2 Honours Program

- Computer Science and Biology: [section 11.13.9.15: Bachelor of Science \(B.Sc.\) - Honours Computer Science and Biology \(77 credits\)](#)

11.10.1.3 Neuroscience Group

11.10.1.3.1 Major Program

- Neuroscience – application required, see [section 11.13.26: Neuroscience](#) for information, and [section 11.13.26.4: Bachelor of Science \(B.Sc.\) - Major Neuroscience \(65 credits\)](#)

11.10.1.3.2 Honours Program

- Neuroscience – application required, see *section 11.13.26: Neuroscience* for information, and *section 11.13.26.5: Bachelor of Science (B.Sc.) - Honours Neuroscience (74 credits)*

11.10.1.4 Physical, Earth, Math & Computer Science Group

11.10.1.4.1 Liberal Program – Core Science Components

- Atmospheric Science: *section 11.13.3.5: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Atmospheric and Oceanic Sciences (48 credits)*
- Chemistry – General option: *section 11.13.7.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - General (49 credits)*
- Computer Science: *section 11.13.9.8: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Computer Science (45 credits)*
- Earth and Planetary Sciences: *section 11.13.10.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Earth and Planetary Sciences (45 credits)*
- Geography: *section 11.13.17.7: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Geography (49 credits)*
- Mathematics: *section 11.13.22.9: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Mathematics (45 credits)*
- Physics: *section 11.13.30.8: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physics (45 credits)*
- Software Engineering: *section 11.13.9.9: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Software Engineering (49 credits)*
- Statistics: *section 11.13.22.10: Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Statistics (48 credits)*

11.10.1.4.2 Major Programs

- Atmospheric Science: *section 11.13.3.6: Bachelor of Science (B.Sc.) - Major Atmospheric Science (62 credits)*
- Chemistry: *section 11.13.7.8: Bachelor of Science (B.Sc.) - Major Chemistry (59 credits)*
- Chemistry – Bio-organic option: *section 11.13.7.9: Bachelor of Science (B.Sc.) - Major Chemistry - Bio-organic (63 credits)*
- Chemistry – Biophysical option: *section 11.13.7.10: Bachelor of Science (B.Sc.) - Major Chemistry: Biophysical Chemistry (66 credits)*
- Computer Science: *section 11.13.9.10: Bachelor of Science (B.Sc.) - Major Computer Science (63 credits)*
- Computer Science – Computer Games option: *section 11.13.9.12: Bachelor of Science (B.Sc.) - Major Computer Science - Computer Games (65 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 (63 credits)*
- Software Engineering: *section 11.13.9.13: Bachelor of Science (B.Sc.) - Major Software Engineering (63 credits)*
- Statistics: *section 11.13.22.12: Bachelor of Science (B.Sc.) - Major Statistics (54 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 11.13.22.13: 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 11.13.22.14: Bachelor of Science (B.Sc.) - Major Statistics and Computer Science (72 credits)*

11.10.1.4.4 Honours Programs

- Applied Mathematics: *section 11.13.22.15: 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 11.13.7.11: Bachelor of Science (B.Sc.) - Honours Chemistry (71 credits)*
- Chemistry – Bio-organic option: *section 11.13.7.12: Bachelor of Science (B.Sc.) - Honours Chemistry - Bio-organic (75 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 11.13.22.16: 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 11.13.22.17: 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)*

11.10.1.4.5 Joint Honours Programs

- Mathematics and Computer Science: *section 11.13.22.19: 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 11.13.22.18: 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)*

Minor Programs

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 4.10.18.6: Bachelor of Science \(B.Sc.\) - Minor GIS & 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 \(18 credits\)](#)

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 \(27 credits\)](#)



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.

11.10.4 Internships, Field Studies, and Global Designation

For opportunities to enhance your degree with hands-on experience, visit [section 11.12: Science Internships and Field Studies](#).

11.10.5 Arts Major and Minor Concentrations Open to Science Students

For more information, please see the relevant departmental entries in [Faculty of Arts > Undergraduate](#).

11.10.5.1 Major Concentrations**Major Concentrations**

- African Studies**, *section 3.10.24.1.4: Bachelor of Arts (B.A.) - Major Concentration African Studies (36 credits)*
- Anthropology**, *section 3.10.4.7: Bachelor of Arts (B.A.) - Major Concentration Anthropology (36 credits)*
- Art History**, *section 3.10.5.7: Bachelor of Arts (B.A.) - Major Concentration Art History (36 credits)*
- Classics**, *section 3.10.19.9: Bachelor of Arts (B.A.) - Major Concentration Classics (36 credits)*
- East Asian Studies**, *section 3.10.9.7: Bachelor of Arts (B.A.) - Major Concentration East Asian Studies (36 credits)*
- Economics**, *section 3.10.10.5: Bachelor of Arts (B.A.) - Major Concentration Economics (36 credits)*
- English - Cultural Studies**, *section 3.10.13.11: Bachelor of Arts (B.A.) - Major Concentration English - Cultural Studies (36 credits)*
- English - Drama and Theatre**, *section 3.10.13.10: Bachelor of Arts (B.A.) - Major Concentration English - Drama and Theatre (36 credits)*
- English - Literature**, *section 3.10.13.9: Bachelor of Arts (B.A.) - Major Concentration English - Literature (36 credits)*
- Gender, Sexuality, Feminist, & Social Justice Studies**, *section 3.10.17.5: Bachelor of Arts (B.A.) - Major Concentration Gender, Sexuality, Feminist, & Social Justice Studies (36 credits)*
- Geography (Urban Studies)**, *section 4.10.18.9: Bachelor of Arts (B.A.) - Major Concentration Geography (Urban Studies) (36 credits)*
- German Studies**, *section 3.10.26.8.4: Bachelor of Arts (B.A.) - Major Concentration German Studies (36 credits)*
- Hispanic Languages**, *: Bachelor of Arts (B.A.) - Major Concentration Hispanic Studies - Languages (36 credits)*
- History**, *section 3.10.19.5: Bachelor of Arts (B.A.) - Major Concentration History (36 credits)*
- International Development Studies**, *section 3.10.23.3.4: Bachelor of Arts (B.A.) - Major Concentration International Development Studies (36 credits)*
- Italian Studies**, *section 3.10.26.8.12: Bachelor of Arts (B.A.) - Major Concentration Italian Studies (36 credits)*
- Jewish Studies**, *section 3.10.25.5: Bachelor of Arts (B.A.) - Major Concentration Jewish Studies (36 credits)*
- Langue et littérature françaises - Études et pratiques littéraires**, *section 3.10.8.9: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Études et pratiques littéraires (36 crédits)*
- Langue et littérature françaises - Traduction**, *section 3.10.8.10: Baccalauréat ès Arts (B.A.) - Concentration majeure Langue et littérature françaises - Traduction (36 crédits)*
- Latin American & Caribbean Studies**, *section 3.10.26.9.5: Bachelor of Arts (B.A.) - Major Concentration Latin American & Caribbean Studies (36 credits)*
- Linguistics**, *section 3.10.27.7: Bachelor of Arts (B.A.) - Major Concentration Linguistics (36 credits)*
- 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)*
- Religious Studies**, *section 3.10.34.11: Bachelor of Arts (B.A.) - Major Concentration Religious Studies (36 credits)*
- Russian**, *section 3.10.26.8.17: 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 3.10.24.2.9: Bachelor of Arts (B.A.) - Major Concentration World Islamic & Middle East Studies (36 credits)*

11.10.5.2 Minor Concentrations**Minor Concentrations**

- African Studies**, *section 3.10.24.1.3: 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 3.10.24.2.4: Bachelor of Arts (B.A.) - Minor Concentration Arabic Language (18 credits)*
- Art History**, *section 3.10.5.5: Bachelor of Arts (B.A.) - Minor Concentration Art History (18 credits)*
- 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)*

Minor Concentrations

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 3.10.9.4: Bachelor of Arts (B.A.) - Minor Concentration East Asian Language and Literature (18 credits)*

East Asian Cultural Studies, *section 3.10.9.5: Bachelor of Arts (B.A.) - Minor Concentration East Asian Cultural Studies (18 credits)*

East Asian Language, Supplementary, *section 3.10.9.6: Bachelor of Arts (B.A.) - Supplementary Minor Concentration East Asian Language (18 credits)*

Economics, *section 3.10.10.4: Bachelor of Arts (B.A.) - Minor Concentration Economics (18 credits)*

English – Cultural Studies, *section 3.10.13.8: Bachelor of Arts (B.A.) - Minor Concentration English - Cultural Studies (18 credits)*

English – Drama and Theatre, *section 3.10.13.7: Bachelor of Arts (B.A.) - Minor Concentration English - Drama and Theatre (18 credits)*

English – Literature, *section 3.10.13.6: Bachelor of Arts (B.A.) - Minor Concentration English - Literature (18 credits)*

Gender, Sexuality, Feminist, & Social Justice Studies, *section 3.10.17.4: Bachelor of Arts (B.A.) - Minor Concentration Gender, Sexuality, Feminist, & Social Justice Studies (18 credits)*

Geography, *section 3.10.18.5: Bachelor of Arts (B.A.) - Minor Concentration Geography (18 credits)*

Geography (Urban Studies), *section 3.10.18.6: Bachelor of Arts (B.A.) - Minor Concentration Geography (Urban Studies) (18 credits)*

German Language, *section 3.10.26.8.2: Bachelor of Arts (B.A.) - Minor Concentration German Language (18 credits)*

German Studies, *section 3.10.26.8.3: Bachelor of Arts (B.A.) - Minor Concentration German Studies (18 credits)*

Health Geography, *section 3.10.18.8: Bachelor of Arts (B.A.) - Minor Concentration Health Geography (18 credits)*

Hispanic Studies, *section 3.10.26.8.7: Bachelor of Arts (B.A.) - Minor Concentration Hispanic Studies (18 credits)*

History, *section 3.10.19.4: Bachelor of Arts (B.A.) - Minor Concentration History (18 credits)*

History and Philosophy of Science, *section 3.10.22.3.3: Bachelor of Arts (B.A.) - Minor Concentration History and Philosophy of Science (18 credits)*

International Development Studies, *section 3.10.23.3.3: Bachelor of Arts (B.A.) - Minor Concentration International Development Studies (18 credits)*

Italian Studies, *section 3.10.26.8.11: Bachelor of Arts (B.A.) - Minor Concentration Italian Studies (18 credits)*

Jewish Studies, *section 3.10.25.4: Bachelor of Arts (B.A.) - Minor Concentration Jewish Studies (18 credits)*

Langue et littérature françaises – Études et pratiques littéraires, *section 3.10.8.6: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et littérature françaises - Études et pratiques littéraires (18 crédits)*

Langue et littérature françaises – Langue française, *section 3.10.8.5: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue & littérature françaises - Langue française (18 crédits)*

Langue et littérature françaises – Traduction, *section 3.10.8.7: Baccalauréat ès Arts (B.A.) - Concentration mineure Langue et litt. françaises - Traduction (18 crédits)*

Latin American & Caribbean Studies, *section 3.10.26.9.4: 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 3.10.24.2.5: 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)*

Religious Studies, *: Bachelor of Arts (B.A.) - Minor Concentration Religion and Globalization (18 credits)*

Russian, *section 3.10.26.8.15: Bachelor of Arts (B.A.) - Minor Concentration Russian (18 credits)*

Russian Culture, *section 3.10.26.8.16: 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 3.10.24.2.6: Bachelor of Arts (B.A.) - Minor Concentration Turkish Language (18 credits)*

Minor Concentrations

Urdu Language, [section 3.10.24.2.7: Bachelor of Arts \(B.A.\) - Minor Concentration Urdu Language \(18 credits\)](#)

World Cinemas, [section 3.10.22.9.3: Bachelor of Arts \(B.A.\) - Minor Concentration World Cinemas \(18 credits\)](#)

World Islamic & Middle East Studies, [section 3.10.24.2.8: Bachelor of Arts \(B.A.\) - Minor Concentration World Islamic & Middle East Studies \(18 credits\)](#)

11.11 Undergraduate Research Opportunities

McGill is a research-intensive university and research is therefore a cornerstone of undergraduate science education at McGill. Most Science B.Sc. students take part in research during their undergraduate studies, and there are many undergraduate research opportunities at McGill, in affiliated hospitals, at other universities, and in the field. Many of these are organized through formal courses or programs organized by the Faculty of Science or its departments. For more information, see the following:

- [section 11.11.1: Research Project Courses](#)
- [section 11.11.1.1: "396" Undergraduate Research Project Courses](#)
- [section 11.11.2: Undergraduate Student Research Awards](#) – such as NSERC USRA and SURA
- [section 11.11.3: Undergraduate Poster Showcase](#)
- [section 11.11.4: Getting involved in research as an undergraduate](#)
- Dean's Multidisciplinary Undergraduate Research List – see description in [University Regulations and Resources](#) > Undergraduate > Graduation > Graduation Honours > [section 1.9.3.3: Faculty of Science Dean's Multidisciplinary Undergraduate Research List](#)

Because internships and field study programs *may* include a research component, please also see: [section 11.12: Science Internships and Field Studies](#)

11.11.1 Research Project Courses

Departments offer a variety of research-based courses that allow you to perform research under the supervision of a McGill researcher for academic credit. Depending on the unit, courses featuring undergraduate research may bear names such as: majors project, honours project, advanced lab, independent research, technical project, independent study, or research project and seminar. For more information, refer to the research course list at mcgill.ca/science/research/undergraduate-research/researchcourses or browse the course listings at mcgill.ca/study/courses/search. Research courses can also help you qualify for the [Dean's Multidisciplinary Undergraduate Research List](#) or the [B.Sc. Global Designation](#).

11.11.1.1 "396" Undergraduate Research Project Courses

"396" undergraduate research project courses are offered by all undergraduate science departments and schools—ANAT 396, ATOC 396, BIOC 396, BIOL 396, etc.—plus COGS 396 (Cognitive Science), ENVR 396 (Environment), FSCI 396, FSCI 397, FSCI 398 D1/D2 (Science Teaching and Learning), HGEN 396 (Human Genetics), MDPH 396 (Medical Physics), and NSCI 396 (Neuroscience). There is also a BASC 396 course specifically for B.A. & Sc. students.

They are elective courses, which can be taken outside your own department, and generally can be taken after one term of undergraduate studies.

Please find more information, including the 396 research project approval form, at mcgill.ca/science/research/undergraduate-research/science-research-courses. Registration requires approval from both the supervisor and the relevant department. Information on the FSCI courses can be found here: mcgill.ca/ose/fsci-396

11.11.2 Undergraduate Student Research Awards

The following award programs fund undergraduate student research projects at McGill (and sometimes off-campus), usually in the summer.

Please also consult mcgill.ca/science/research/undergraduate-research for any new programs that may have been added.

11.11.2.1 NSERC Undergraduate Student Research Awards

The **Natural Sciences and Engineering Research Council of Canada Undergraduate Student Research Awards (NSERC USRA)** in Universities program supports 16 consecutive weeks of paid full-time research in natural sciences and engineering disciplines, under the supervision of a professor. It is an excellent way to prepare for graduate studies or a future career in science. This program is also offered at other universities across Canada.

To apply, you must be a Canadian citizen or permanent resident of Canada. Please refer to mcgill.ca/science/research/undergraduate-research/nserc for more information.

11.11.2.2 SURA: Science Undergraduate Research Awards

Science Undergraduate Research Awards—SURAs—support a full-time summer research project under the supervision of a McGill science professor. SURAs are made possible by funding from generous donors, participating research supervisors, and the Faculty of Science. SURAs are similar to the NSERC USRA; three differences are that *international students may apply*, not only Canadians; SURAs can support projects in social science or medical science, not only natural science or engineering; and SURAs are only for B.Sc. and B.A. & Sc. students (B.A. students may wish to look into programs offered by the Faculty of Arts).

Please refer to mcgill.ca/science/research/undergraduate-research/sura for more information.

11.11.3 Undergraduate Poster Showcase

Each year, the Faculty of Science holds an undergraduate poster showcase to celebrate the work of our undergraduate students. This event, sponsored by the Office of Science Education, is an opportunity for students to present research, projects and assignments completed inside or outside class.

Everyone is welcome to attend.

For more details and the date, please refer to mcgill.ca/ose/undergraduate-poster-showcase.

11.11.4 Getting involved in research as an undergraduate

Opportunities at McGill

Departments and individual researchers at McGill offer various opportunities for undergraduate students to get involved in research. These arrangements may be voluntary or remunerated by academic credit or income.

Some are formal programs that you can find more information about elsewhere in the eCalendar:

- [section 11.11.1: Research Project Courses](#)
- [section 11.11.1.1: "396" Undergraduate Research Project Courses](#)
- [section 11.11.2: Undergraduate Student Research Awards](#)

Others come about through informal discussions between students and professors.

For more information on finding research opportunities at McGill, including tips for contacting researchers, visit mcgill.ca/science/research/undergraduate-research/finding-opportunities.

Internships and field studies

Some science internships and field study programs include a research component. Refer to [section 11.12: Science Internships and Field Studies](#) for more information.

Beyond McGill

You may also want to look for opportunities funded or offered by external foundations or institutions, research agencies, other academic institutions, or scholarly societies. Examples include: a provincial cancer research society, the science funding agency of another country which you wish to visit or where you hold citizenship, research hospitals or universities in another city, or an international psychological association.

11.12 Science Internships and Field Studies

The [Science Internships & Field Studies Office](#) promotes field studies and internship opportunities to interested students seeking hands-on experience. The office coordinates the field study semesters offered through the Faculty of Science and provides information on internship opportunities to students who are in Science programs at McGill. Whether you decide to participate in a field study semester or apply classroom theory to practice, the [Science Internships & Field Studies Office](#) will offer you assistance in your decision.

Burnside Hall, Room 720
 805 Sherbrooke Street West
 Montreal QC H3A 0B9
 Telephone: 514-398-1063; 514-398-8365
 Email: ifso.science@mcgill.ca
 Website: mcgill.ca/science/undergraduate/internships-field/internships

11.12.1 Internship Program: Industrial Practicum (IP) and Internship Year in Science (IYS)

The Internship Program is open to all Science undergraduate students, as well as qualified students in other undergraduate degrees or programs, including majors in Environment, Computer Science, Software Engineering, Geography, Mathematics, and Psychology. Participating in an internship offers you the chance to add a practical element to your studies, to solidify your career goals, to gain some valuable experience, and to earn money. Internships may have a basis in research.

To be eligible to apply:

- You must be registered as a full time student before and after the IP or the IYS is completed.
- You must have completed at least 27 credits and have at least 12 credits remaining in your degree program.
- Your CGPA must be 2.7 or higher.
- International McGill students are eligible to apply to summer IP and IYS positions (unless otherwise indicated on the job posting). Restrictions apply; interested students should visit the Internships & Field Studies Office for details.

The program features the *Industrial Practicum* (4 months) and the *Internship Year in Science* (8, 12, 16 months).

Internship Program Designation

The Internship Program will also give you the opportunity to enhance your degree: if you are a student in the Faculty of Science and you complete two *Industrial Practica* (IP) or participate in an *Internship Year in Science* (IYS), the name of your program will change to include the Internship Program designation (e.g., Bachelor of Science – Computer Science - Internship Program).

For more information on IP and IYS, please see mcgill.ca/science/undergraduate/internships-field/internships.

11.12.2 Field Study Semester Programs

McGill's Field Study Semester programs (in Africa, Arctic, Barbados, and Panama) are research-based, as are many shorter field courses offered by the Departments of Biology, Earth & Planetary Sciences, and Geography. See mcgill.ca/science/undergraduate/internships-field/field for more information about these programs.

11.12.3 B.Sc. Global Designation

The above internship and study abroad opportunities form part of a special B.Sc. Global designation awarded to eligible students at graduation; visit mcgill.ca/science/undergraduate/programs/bsc-global for more information.

11.13 Browse Academic Units & Programs

What is a Major Program?

A major is a versatile, comprehensive primary area of study. Most major programs require about two-thirds of your total credits. With the remaining credits, you can choose electives, or you may want to use those additional credits to take a minor, which can be chosen from a wide variety of areas both within and outside Science.

What is an Honours Program?

Honours programs typically 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 flexible and modular program. You combine a core science component (CSC) in a Science discipline with a breadth component, which may be a minor from a wide variety of areas, a major concentration from the Faculty of Arts, or a second CSC from any group in Science. Consider the Liberal program if you do not want to overly specialize—plus, you will still have room left over for elective courses.

What about Joint Programs?

The Faculty of Science also has quite a few joint programs. These programs combine two different disciplines, which allow you to gain expertise in two fields.

What about Interdisciplinary Programs?

There are many ways to create interdisciplinary programs in the Faculty of Science. You can add a minor to a major or honours program, you can take a liberal program that contains both a core science component and a breadth component, or you can select an explicit interdisciplinary major. The Faculty of Science offers three such interdisciplinary programs: Earth System Science, Environment, and Neuroscience.

11.13.1 B.Sc. Freshman Program

If you need 97–120 credits (four years) to complete your degree requirements, you must register in the Science Freshman program, which is designed to provide the basic science foundation for your subsequent three-year Liberal, Major, or Honours program. For a detailed description of the Science Freshman program, you should consult [section 11.13.1.1: Bachelor of Science \(B.Sc.\) - Freshman Program \(30 credits\)](#) and the Science Freshman Student information available on the SOUSA website, mcgill.ca/science/undergraduate/handbook.

If you have completed the Diploma of Collegial Studies, Advanced Placement exams, Advanced Levels, the International Baccalaureate, the French Baccalaureate, or McGill placement examinations, you may receive exemption and/or credit for all or part of the basic science courses in biology, chemistry, mathematics, and physics. Similarly, if you have completed courses at other universities or colleges, you may receive exemptions and/or credits. You should consult mcgill.ca/transferecredit/prospective for more information.

11.13.1.1 Bachelor of Science (B.Sc.) - Freshman Program (30 credits)

Students who need 97-120 credits to complete their degree requirements will normally be registered in the Science Freshman Program until they complete their first year. They must consult an adviser in the Science Office for Undergraduate Student Advising (SOUSA) to obtain advice and approval of their course selection.

Full details are available on the SOUSA website at <http://www.mcgill.ca/science/student/newstudents/u0>. Academic advising is also available by email. The address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least seven courses from the list of Approved Freshman Science Courses, selected as follows:

General Math and Science Breadth

Six of the Freshman courses to satisfy one of the following:

Option 1) 2 courses from MATH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MATH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list of Approved Freshman Science Courses.

Notes:

1. Students who have not studied all of Biology, Chemistry, and Physics at the grade 12 level or equivalent are strongly advised to include at least one course in the missing discipline in their Freshman Program.
2. Many students will complete more than seven courses from the Approved Freshman Science Courses list, particularly those who wish to leave several options open for their choice of major.
3. Students entering the Freshman Program should be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <http://www.mcgill.ca/science/student/newstudents/u0/bscfreshman/specific>.
4. The maximum number of courses per term, 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 at <http://www.mcgill.ca/science/student/continuingstudents/bsc/outside/> for more information about taking courses from other faculties.

11.13.2 Anatomy and Cell Biology (ANAT)

11.13.2.1 Location

Strathcona Anatomy and Dentistry Building, Rooms M21-M31
3640 University Street
Montreal, Quebec H3A 0C7
Telephone: 514-398-6350
Website: mcgill.ca/anatomy

11.13.2.2 About Anatomy and Cell Biology

The Department of Anatomy and Cell Biology offers courses that deal with:

- cell biology;
- histology;
- embryology;
- neuroanatomy; and
- gross anatomy.

The **Honours** program is designed as the first phase in the training of career cell and molecular biologists. The **Major** and **Liberal** programs offer decreasing levels of specialization in Anatomy and Cell Biology but with a broader base in other biological sciences. These programs also form a sound background for graduate studies in Anatomy and Cell Biology, or for further professional training, including medical school and other health programs. A B.Sc. in Anatomy and Cell Biology provides an excellent preparation for technical and administrative positions in laboratories of universities, research institutions, hospitals, and pharmaceutical and biotechnological industries.

The Department is equipped to perform protein purification; recombinant DNA technology; micro-injection of molecules into single cells; cytochemical, immunocytochemical, and fluorescent analysis and electron microscopy; proteomics; and genomics. The Department has a well-equipped centre for electron microscopy as well as a centre for confocal and immunofluorescence. The Department's cryo-electron microscope facility is unique and provides cutting edge technology with which to apply fundamental discoveries to therapeutic applications. Human anatomy classes are taught in the fully-equipped cadaver lab and students have access to 3D printers and other learning tools.

11.13.2.3 Anatomy and Cell Biology (ANAT) Faculty

Chair

Craig Mandato

Emeritus Professors

Gary C. Bennett; John J.M. Bergeron; James R. Brawer; Louis Hermo; Sandra C. Miller; Dennis G. Osmond; Hershey Warshawsky.

Professors

Chantal Autexier; Samuel David (*joint appt. with Neurology and Neurosurgery*); Elaine Davis; Timothy Kennedy (*joint appt. with Neurology and Neurosurgery*); Nathalie Lamarche-Vane; Marc D. McKee (*joint appt. with Dentistry*); Peter McPherson (*joint appt. with Neurology and Neurosurgery*); Carlos R. Morales; Joaquin Ortega; Barry I. Posner (*joint appt. with Medicine and Health Sciences*); Dieter Reinhardt (*joint appt. with Dentistry*); Alfredo Ribeiro-da-Silva (*joint appt. with Pharmacology and Therapeutics*); Wayne Sossin (*joint appt. with Neurology and Neurosurgery*); Stefano Stifani (*joint appt. with Neurology and Neurosurgery*); Hojatollah Vali; Dominique Walker (*joint appt. with Psychiatry*).

Associate Professors

Orest W. Blaschuk (*joint appt. with Surgery*); Craig Mandato; John F. Presley.

Assistant Professors

Susanne Bechstedt; Khanh Huy Bui; Sean McWatt; Michael Strauss; Mikaela Stiver; Gabriel Venne; Nicole Ventura; Mina Zeroual; Natalie Zeytuni.

Associate Members

Rosetta Antonacci (*Ingram School of Nursing*); Daniel Bernard (*Pharmacology and Therapeutics*); Claire Brown (*Physiology*); Colin Chalk (*Neurology and Neurosurgery*); Jean-François Cloutier (*Neurology and Neurosurgery*); Claudio Cuello (*Pharmacology and Therapeutics*); Giovanni Di Battista (*Medicine and Health Sciences*); Allen Ehrlicher (*Bioengineering*); Alyson Fournier (*Neurology and Neurosurgery*); Lisbet Haglund (*Surgery*); Janet Henderson (*Medicine and Health Sciences*); Loydie A. Jerome-Majewska (*Pediatrics and Human Genetics*); Mari T. Kaartinen (*Dentistry*); Svetlana Komarova (*Dentistry*); David Labbé (*Surgery and Urology*); Stéphane Laporte (*Medicine and Health Sciences*); Andréa Leblanc (*Neurology and Neurosurgery*); Stéphanie Lehoux (*Medicine and Health Sciences*); Heidi McBride (*Montreal Neurological Institute*); Peter Metrakos (*Surgery*); Makato Nagano (*Obstetrics and Gynecology*); Stephen Robbins; Christian Rocheleau (*Endocrinology and Metabolism*); Edward S. Ruthazer (*Neurology and Neurosurgery*); Donna Senger; Peter Siegel (*Medicine and Health Sciences, and Biochemistry*); Charles E. Smith; Thomas Stroh (*Neurology and Neurosurgery*); Jason Tanny (*Pharmacology and Therapeutics*).

Adjunct Professors

Gregor Andelfinger; Philippe Campeau; Michel Cayouette; Frédéric Charron; Jean-François Côté; Daniel Cyr; Jacques Drouin; Jennifer Estall; Patrick Freud; Michael Greenwood; David Hipfner; Artur Kania; Justin Kollman; Stéphane Lefrançois; Alexei Pshzhetsky; Isabelle Rouiller; Michael Sacher; Elitza Tocheva; Javier Vargas.

11.13.2.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Anatomy and Cell Biology (48 credits)

Students may complete this program with a minimum of 47 credits or a maximum of 48 credits depending on their choice of complementary courses.

Required Courses (32 credits)

Note: ANAT 261 must be taken in U1.

* Students who have taken the equivalent of CHEM 212 and/or MATH 203 in CEGEP (as defined at <http://www.mcgill.ca/students/courses/plan/transfer/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
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 514	(3)	Advanced Human Anatomy Laboratory
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 Cancer
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

11.13.2.5 Bachelor of Science (B.Sc.) - Major Anatomy and Cell Biology (67 credits)**Required Courses (43 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.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
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 (24 credits)

Complementary courses are selected as follows with a minimum of 6 credits at the 400 level or higher:

12 credits of advanced anatomy courses (AAC) selected from:

ANAT 314	(3)	Human Musculoskeletal Anatomy
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 514	(3)	Advanced Human Anatomy Laboratory
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking
NEUR 310	(3)	Cellular Neurobiology

12 credits of biologically oriented courses (BOC) selected from:

ANAT 314	(3)	Human Musculoskeletal Anatomy
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 565	(3)	Diseases-Membrane Trafficking

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Biochemistry of Immune Diseases
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BIOT 505	(3)	Selected Topics in Biotechnology
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, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 451	(3)	Advanced Neurophysiology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 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/transfercredit/>) are exempt and must replace these credits with elective course credits to satisfy the total credit requirement for their degree.

ANAT 212	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 432	(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, Disease and Regeneration
ANAT 458	(3)	Membranes and Cellular Signaling
ANAT 514	(3)	Advanced Human Anatomy Laboratory
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 542	(3)	Transmission Electron Microscopy of Biological Samples
ANAT 565	(3)	Diseases-Membrane Trafficking
NEUR 310	(3)	Cellular Neurobiology

3 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 323	(3)	Clinical Neuroanatomy
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 542	(3)	Transmission Electron Microscopy of Biological Samples
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)	Biochemistry of Immune Diseases
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BIOT 505	(3)	Selected Topics in Biotechnology
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
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology

PHGY 314	(3)	Integrative Neuroscience
PHGY 451	(3)	Advanced Neurophysiology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.3 Atmospheric and Oceanic Sciences (ATOC)

11.13.3.1 Location

Burnside Hall, Room 945
 805 Sherbrooke Street West
 Montreal QC H3A 0B9
 Telephone: 514-398-3764
 Fax: 514-398-6115
 Email: info.aos@mcgill.ca
 Website: mcgill.ca/meteo

11.13.3.2 About Atmospheric and Oceanic Sciences

The Department of Atmospheric and Oceanic Sciences offers, at the undergraduate level, a broad range of courses in atmospheric chemistry, atmospheric physics, meteorology, ocean and atmosphere dynamics, and climate. The study of atmospheric and oceanic sciences is based largely on physics and applied mathematics. All required courses except those at the introductory level generally have prerequisites or corequisites in physics, mathematics, and atmospheric science.

One of the goals of the discipline is to develop the understanding necessary to improve our ability to predict the weather. Another important area of study focuses on the changes in global climate caused by the changing chemical composition of the atmosphere. The approach to the study of climate change is quantitative in the Department of Atmospheric and Oceanic Sciences. Like other parts of physics, atmospheric and oceanic sciences attempt to create theoretical models of their complex processes as a means of analyzing the motion and composition of the air and seawater, thermodynamic behaviours, and their interaction with radiation and with the other components of the climate system.

From one viewpoint, the atmosphere and ocean may be studied as a large volume of gas or liquid by the methods of fluid mechanics: wind or currents, circulation patterns, turbulence, and energy and momentum exchanges are the ideas employed in this approach. Alternatively, the atmosphere and ocean may be studied from the point of view of their detailed physics: how water condenses in the air; how seawater freezes to form sea ice; how cloud droplets make rain; how sunlight warms the surface of the Earth; how heat is exchanged between the ocean and the atmosphere; and how the atmosphere and ocean interact to shape the weather and climate. A comprehensive understanding requires both viewpoints, and these are reflected in the curriculum.

The Department of Atmospheric and Oceanic Sciences offers six programs:

- [section 11.13.3.4: *Minor in Atmospheric Science*](#)
- [section 11.13.3.5: *Liberal Program - Core Science Component Atmospheric and Oceanic Sciences*](#)
- [section 11.13.3.6: *Major in Atmospheric Sciences*](#)
- [section 11.13.3.7: *Major in Atmospheric Science and Physics*](#)
- [section 11.13.3.8: *Honours in Atmospheric Science*](#)
- [section 11.13.3.9: *Diploma in Meteorology*](#)

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 atmospheric and oceanic sciences 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. Our students have been traditionally employed by Environment and Climate Change Canada (and the Meteorological Service of Canada in particular), but are also highly sought after by provincial governments, private forecasting companies, environmental consulting and engineering firms, and insurance companies. Academic positions in teaching and research are available to M.Sc. and Ph.D. graduates.

Students interested in any of the undergraduate programs should contact:

Carolina Dufour, Undergraduate Program Adviser
 Email: carolina.dufour@mcgill.ca

11.13.3.3 Atmospheric and Oceanic Sciences Faculty

Chair

D. Kirshbaum

Emeritus Professors

P. Bartello (*joint appt. with Mathematics and Statistics*); J.F. Derome; H.G. Leighton; L.A. Mysak; M.K. Yau; I. Zawadzki.

Professors

P. Ariya (*joint appt. with Chemistry*); J.R. Gyakum; B. Tremblay.

Associate Professors

F. Fabry (*joint appt. with Bieler School of Environment*); Y. Huang; D. Kirshbaum; T. Preston (*joint appt. with Chemistry*); D. Straub; A. Zuend.

Assistant Professors

C. Dufour; D. Romanic; I. Tan.

Adjunct Professors

L. Barrie; M. Buehner; P. Kollias; H. Lin; L.-P. Nadeau.

11.13.3.4 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 517	(3)	Boundary Layer Meteorology
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 557	(3)	Research Methods: Atmospheric and Oceanic Science
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics

11.13.3.5 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Atmospheric and Oceanic Sciences (48 credits)

45-48 credits

Required Courses (21 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (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
PHYS 251	(3)	Honours Classical Mechanics 1

3 credits selected from:

PHYS 232	(3)	Heat and Waves
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PHYS 253 (3) Thermal Physics

12-15 credits selected from (at least 6 of which must be ATOC):

ATOC 309	(3)	Weather Radars and Satellites
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 517	(3)	Boundary Layer Meteorology
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 548	(3)	Mesoscale Meteorology
ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
MATH 203	(3)	Principles of Statistics 1
MATH 319	(3)	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 (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

* Students may take ATOC 219 or CHEM 219.

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
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)	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 may take either MATH 203 or MATH 324.

** Students may take either PHYS 340 or PHYS 350.

*** Students may take either PHYS 342 and PHYS 352.

15-17 credits from one of the following streams:

Weather Analysis and Forecasting Stream (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 517	(3)	Boundary Layer Meteorology
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 548	(3)	Mesoscale Meteorology
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either ATOC 404 or PHYS 404.

++ Students may take either PHYS 432 or MATH 555.

Climate Science Stream (15 credits)

6 credits from:

ATOC 404+	(3)	Climate Physics
ATOC 531	(3)	Dynamics of Current Climates
PHYS 404+	(3)	Climate Physics

+ Students may take either ATOC 404 or PHYS 404.

9 credits (at least 6 credits must be ATOC courses) selected from:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
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

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 323	(3)	Probability
PHYS 512	(3)	Computational Physics with Applications

Atmospheric Chemistry and Physics Stream (15 credits)

ATOC 309	(3)	Weather Radars and Satellites
ATOC 404+	(3)	Climate Physics
ATOC 517	(3)	Boundary Layer Meteorology
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
PHYS 404+	(3)	Climate Physics
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either ATOC 404 or PHYS 404.

General Stream (15-17 credits)

15-17 credits (at least 12 credits must be ATOC courses) 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 517	(3)	Boundary Layer Meteorology
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 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
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
GEOG 322	(3)	Environmental Hydrology

GEOG 372	(3)	Running Water Environments
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either ATOC 404 or PHYS 404.

++ Students may take either PHYS 432 or MATH 555.

11.13.3.7 Bachelor of Science (B.Sc.) - Major Atmospheric Science and Physics (69 credits)

This Major provides a solid basis for postgraduate study in meteorology, atmospheric physics, or related fields, as well as the necessary preparation for embarking on a professional career as a meteorologist directly after the B.Sc.

The program is jointly administered by the Department of Physics and the Department of Atmospheric and Oceanic Sciences. Students should consult undergraduate advisers in both departments.

Required Courses (57 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 346	(3)	Majors Quantum Physics

Complementary Course (12 credits)

At least 6 of the 12 complementary credits must come from ATOC courses.

ATOC 357	(3)	Atmospheric and Oceanic Science Laboratory
ATOC 404*	(3)	Climate Physics
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 517	(3)	Boundary Layer Meteorology
ATOC 521	(3)	Cloud Physics

ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 548	(3)	Mesoscale Meteorology
ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 404*	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern Physics
PHYS 449	(3)	Majors Research Project
PHYS 512	(3)	Computational Physics with Applications

* Students cannot take both ATOC 404 and PHYS 404.

11.13.3.8 Bachelor of Science (B.Sc.) - Honours Atmospheric Science (74 credits)

72-74 credits

Students can be admitted to the Honours program after completion of the U1 year of the Major in Atmospheric Science program with a minimum GPA of 3.30. Students having completed a U1 year in a different program with high standing may be admitted to the Honours program on the recommendation of that department.

A minimum GPA of 3.30 in the Honours program courses (taken as a whole) is required to remain in the program. A CGPA of 3.30 on the total program is also required to graduate with honours.

Required Courses (27 credits)

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
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 (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 either ATOC 219 or CHEM 219.

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)	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)	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 may take either MATH 203 or MATH 324.

** Students may take either PHYS 340 or PHYS 350.

*** Students may take either PHYS 342 or PHYS 352.

21-23 credits from one of the following four streams:

Weather Analysis and Forecasting Stream (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 517	(3)	Boundary Layer Meteorology
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 548	(3)	Mesoscale Meteorology
ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
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
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either ATOC 404 or PHYS 404.

++ Students may take either PHYS 432 or MATH 555.

Climate Science Stream (21-22 credits)

15 credits from:

ATOC 404+	(3)	Climate Physics
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 may take either ATOC 404 or PHYS 404.

Students may take either MATH 203 or MATH 324.

6-7 credits (3 credits must be an ATOC course) 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 540	(3)	Synoptic Meteorology 1

ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
ATOC 558	(3)	Numerical Methods and Laboratory
ATOC 568	(3)	Ocean Physics
EPSC 513	(3)	Climate and the Carbon Cycle
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
MATH 423	(3)	Applied Regression
MATH 555++	(4)	Fluid Dynamics
PHYS 432++	(3)	Physics of Fluids
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either PHYS 432 or MATH 555.

Atmospheric Chemistry and Physics Stream (21 credits)

15 credits from:

ATOC 309	(3)	Weather Radars and Satellites
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods

6 credits selected from:

ATOC 404+	(3)	Climate Physics
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 517	(3)	Boundary Layer Meteorology
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 525	(3)	Atmospheric Radiation
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
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
MATH 423	(3)	Applied Regression
PHYS 404+	(3)	Climate Physics
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either ATOC 404 or PHYS 404.

General Stream (21-22 credits)

(at least 15 credits must be ATOC courses) 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 517	(3)	Boundary Layer Meteorology
ATOC 519	(3)	Advances in Chemistry of Atmosphere
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 546	(1)	Current Weather Discussion
ATOC 548	(3)	Mesoscale Meteorology
ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
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
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
MATH 423	(3)	Applied Regression
MATH 555++	(4)	Fluid Dynamics
PHYS 404+	(3)	Climate Physics
PHYS 432++	(3)	Physics of Fluids
PHYS 512	(3)	Computational Physics with Applications

+ Students may take either ATOC 404 or PHYS 404.

++ Students may take either 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 fulfill academic prerequisites in meteorology to qualify for employment. For further information, contact the Undergraduate Program Director (<https://www.mcgill.ca/meteo/facultystaff/staff>)

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 may 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 517	(3)	Boundary Layer Meteorology
ATOC 525	(3)	Atmospheric Radiation
ATOC 548	(3)	Mesoscale Meteorology
ATOC 557	(3)	Research Methods: Atmospheric and Oceanic Science
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	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). 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
 Website: 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 in all fields of medicine, in agriculture, and in many chemical- and health-related industries. Biochemistry is also unique in providing teaching and research opportunities in both protein structure/function and genetic engineering, the two basic components of the rapidly expanding field of biotechnology.
- *A varied science:* As the broadest of the basic sciences, biochemistry includes many subspecialties such as neurochemistry, bioorganic chemistry, clinical biochemistry, physical biochemistry, molecular genetics, biochemical pharmacology, and immunochemistry. Recent advances in these areas have created links among technology, chemical engineering, and biochemistry.

The Department of Biochemistry offers three undergraduate programs:

- **Liberal Program**

This is the most flexible of the departmental programs offered, providing students with a useful concentration in biochemistry while allowing them to pursue a minor in another speciality or to broaden their education in the sciences.

- **Major**

The Major program becomes more specialized in biochemistry during the final two years. This program requires skills and insight from all areas of chemistry, and from other areas such as biology, physiology, microbiology and immunology, statistics, and pharmacology. For students aiming for a professional career in the biological sciences or in medicine, these programs can lead to postgraduate studies and research careers in hospital, university, or industrial laboratories.

- **Honours**

The Honours program in Biochemistry combines the substantial background given by the Major program with a challenging opportunity to carry out laboratory research projects in the U3 year. These courses provide students with research experience under the supervision of a professor in the Department. Honours students intending to pursue an M.Sc. in Biochemistry may be interested in the B.Sc./M.Sc. track, which offers a streamlined path to a graduate degree.

Our Major and Honours programs provide a sound background for students aiming for a professional career in biochemistry. The less specialized Liberal program allows students to select courses in other fields of interest. The Liberal program provides students with the opportunity to study the core of one science discipline along with a breadth component from another area of science or from many other disciplines; for more information, see [Faculty of Science > Undergraduate > Faculty Degree Requirements > Program Requirements > section 11.6.4.1: Liberal, Major, and Honours Programs](#).

During the first year, each program provides introductory lecture and laboratory courses in biochemistry, as well as basic courses in cell and molecular biology and organic and physical chemistry. In the second and third years, the programs offer an expanded focus in biochemistry through lecture courses, a second laboratory course in biochemistry, and opportunities to carry out research projects in faculty members' laboratories through our BIOC 396, BIOC 462, and BIOC 491 courses. Students can also take a variety of complementary courses in other biological, biomedical, and chemical disciplines in their second and third years.

Increasingly complex technology requires training in both chemistry and biology. As well, the combination of chemistry, molecular biology, enzymology, and genetic engineering in our programs provides the essential background and training in biotechnology. With this, our graduates can work in a variety of 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 pursue 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, Philip E. Branton, Peter E. Braun, Robert E. MacKenzie, Walter E. Mushynski, Joseph Shuster, John R. Silvius, Clifford P. Stanners, Maria Zannis-Hadjopoulos, Imed Gallouzi

Professors

Nicole Beauchemin, Albert Berghuis, Maxime Bouchard, Josée Dostie, Thomas Duchaine, Kalle Gehring, Vincent Giguère, Philippe Gros, Alba Guarné, Roderick R. McInnes, William Muller, Bhushan Nagar, Alain Nepveu, Morag Park, Arnim Pause, Jerry Pelletier, Martin Schmeing, Nahum Sonenberg, Jose G. Teodoro, David Y. Thomas, Michel L. Tremblay.

Associate Professors

Sidong Huang, Selena M. Sagan, Ian Watson, Jason C. Young.

Assistant Professors

Natasha C. Chang, Maxime Denis, Lawrence Kazak, William Pastor, Maria Vera Ugalde.

Associate Members

Gary Brouhard, Marc Fabian, Robert S. Kiss, Gergely Lukacs, Luke McCaffrey, Joaquin Ortega, Janusz Rak, Stéphane Richard, Reza Salavati, Erwin Schurr, Peter Siegel, Ivan Topisirovic, Youla S. Tsantrizos, Bernard Turcotte, Josie Ursini-Siegel, Simon Wing, Xiang-Jiao Yang, Natalie Zeytun.

Adjunct Professors

Jacques Drouin, Enrico Purisima, Julie St-Pierre.

11.13.4.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Biochemistry (47 credits)
U1 Required Courses (23 credits)

* Students with CEGEP-level credit for CHEM 212 and/or CHEM 222 should replace these courses with elective courses.

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOC 220	(3)	Laboratory Methods in Biochemistry and Molecular Biology 1
BIOL 200	(3)	Molecular Biology
BIOL 202	(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)**

** 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)	Functional Biology of Plants and Animals
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (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)	Functional Biology of Plants and Animals
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (20 credits)

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 320	(3)	Laboratory Methods in Biochemistry and Molecular Biology 2
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362	(2)	Advanced Organic Chemistry Laboratory

U2 Complementary Courses (3 credits)

3 credits selected from:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
CHEM 267	(3)	Introductory Chemical Analysis
COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
PSYC 204	(3)	Introduction to Psychological Statistics

U3 Required Courses (6 credits)

BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

U3 Complementary Courses (6 credits)

3-6 credits selected from:

BIOC 458	(3)	Membranes and Cellular Signaling
BIOC 470	(3)	Lipids and Lipoproteins in Disease
BIOC 491	(6)	Independent Research
BIOC 503	(3)	Biochemistry of Immune Diseases
PSYT 455	(3)	Neurochemistry

The remainder, if any, to be selected from the following list:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 482	(3)	Organic Chemistry: Natural Products

CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 532	(3)	Structural Organic Chemistry
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)	Functional Biology of Plants and Animals
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

U2 Required Courses (20 credits)

ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules

BIOC 320	(3)	Laboratory Methods in Biochemistry and Molecular Biology 2
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 362	(2)	Advanced Organic Chemistry Laboratory

U2 Complementary Courses (3 credits)

3 credits selected from:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
CHEM 267	(3)	Introductory Chemical Analysis
COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
PSYC 204	(3)	Introduction to Psychological Statistics

U3 Required Courses (15 credits)

BIOC 404	(3)	Biophysical Methods in Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 462	(6)	Research Laboratory in Biochemistry

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)	Biochemistry of Immune Diseases
PSYT 455	(3)	Neurochemistry

The remainder, if any, to be selected from the following list:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 482	(3)	Organic Chemistry: Natural Products
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 532	(3)	Structural Organic Chemistry
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

OR

Dr. Monroe Cohen
Physiology
Telephone: 514-398-4342
Email: 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
Website: mcgill.ca/biology

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.

The study of biology also has vast practical applications. The knowledge, methods, and concepts developed through research in the various fields of biology are applied extensively in agriculture, medicine, pharmaceutical development, biotechnology, genetic engineering, environmental protection, and wildlife management.

The Department of Biology offers:

- **Liberal** program;
- **Major** program;
- **Joint Majors** with Computer Science and with Mathematics;
- **Honours** program;

- **Joint Honours** with Computer Science;
- **Minor** program;
- **Minor concentration** in Science for Arts students;
- Biology **Major** and **Honours option** in Quantitative Biology;
- as well as **Major** and **Minor concentrations** in the B.A. & Sc.

The programs in Biology provide you with an introduction to the broad spectrum of Biological Sciences in contrast to more specialized programs in Biochemistry, Microbiology, Pharmacology, Physiology, and Anatomy and Cell Biology. The B.Sc. degree in Biology prepares you for a wide range of employment opportunities as well as entry to professional schools in medicine, veterinary science, dentistry, agriculture, nursing, education, and library science. It also provides solid background for those interested in careers related to environmental protection, wildlife management, biotechnology, and genetic engineering. The B.Sc. degree in Biology can also lead to post-graduate studies and research careers in universities, research institutes, hospitals, and industrial or governmental laboratories.

The Department of Biology's well-equipped research laboratories are located in the Stewart Biology Building, 1205 Docteur Penfield Avenue and in the adjacent Bellini Life Sciences Building. Due to massive renovations that began in the Fall of 2017, only the North Wing of the Stewart Building is currently in use and freshman biology labs have temporarily moved into the Duff Medical Building. The Department includes many biologists who are international leaders in their research fields, but who nevertheless remain deeply committed to undergraduate education. We have outstanding infrastructure for cell, developmental, and neurobiology research, and extensive links to biomedical scientists throughout McGill and all over the world. Our ecology and evolutionary biology group is also internationally prominent and dedicated to studying aquatic and terrestrial ecosystems.

Our core undergraduate program will expose you to the broad areas of biology at all of these levels of complexity. At the same time you will be able to focus on topics related to your specific interests through complementary and elective courses. Beyond the large introductory classes, our class sizes are relatively small and you will have lots of opportunities for contact with your instructors; this is one of our strengths! Biology's teaching and research resources are extended by affiliation with the Redpath Museum, the hospitals and research institutes of the McGill University Health Centre, the Montreal Neurological Institute, the Sheldon Biotechnology Institute, and the Smithsonian Tropical Research Institute in Panama. Field courses enable you to study biology in a natural setting, in local ecosystems (e.g., at McGill's Gault Nature Reserve), and in distant ones such as Barbados, Panama, and East Africa. The Biology Department is also deeply committed to providing individual research experiences to its undergraduates. U2- and U3-level students, not just Honours program students, can carry out semester- or year-long independent study projects for course credit in Biology department research labs. Numerous summer opportunities are also available.

Undergraduate students are represented by the MBSU (McGill Biology Students Union) in the Departmental Assembly and in Standing Committees.

Inquiries about undergraduate programs should be directed to:

Student Affairs Office
 Stewart Biology Building, Room N7/9B
 Telephone: 514-398-4109
 Email: nancy.nelson@mcgill.ca
 Website: mcgill.ca/biology/undergraduate-studies/advising-planning/biology-advising



Note to those interested in the B.A. & Sc. program: Both a major and a minor concentration in Biology are available to students pursuing the B.A. & Sc. degree. These concentrations are described in [Bachelor of Arts and Science > Undergraduate > Browse Academic Units & Programs > section 4.10.6: Biology \(BIOL\)](#).

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);
- one or two courses in Physics (mechanics and electromagnetism), depending on your choice of upper year courses.

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
 Email: nancy.nelson@mcgill.ca
 Website: mcgill.ca/biology/undergraduate-studies/advising-planning/biology-advising

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 mcgill.ca/science/undergraduate/handbook#bsc-outside-course-restrictions.

If you are interested in advanced studies in any biological discipline, you 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 CEEB: Conservation, Ecology, Evolution and Behaviour

BIOL 304, BIOL 305, BIOL 308, BIOL 309, BIOL 310, BIOL 311, BIOL 320, BIOL 324, BIOL 331, BIOL 334D1,D2, BIOL 335, BIOL 352, BIOL 363, BIOL 377, BIOL 396, BIOL 413, BIOL 418, BIOL 427, BIOL 428, BIOL 429, BIOL 432, BIOL 436, BIOL 441, BIOL 451, BIOL 465, BIOL 466, BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2, BIOL 507, BIOL 510, BIOL 515, BIOL 517, BIOL 540, BIOL 553, BIOL 569, BIOL 573, BIOL 592, BIOL 594, GEOG 302, GEOG 305, GEOG 308, GEOG 322, GEOG 470, REDM 400; MAC CAMPUS: PARA 424, PLNT 358, PLNT 460, WILD 307, WILD 350, WILD 415, WILD 420, WILD 421

11.13.5.4.1.1 MCDB: Molecular, Cellular and Developmental Biology

BIOL 300, BIOL 301, BIOL 302, BIOL 303, BIOL 306, BIOL 309, BIOL 313, BIOL 314, BIOL 316, BIOL 324, BIOL 370, BIOL 377, BIOL 396, BIOL 413, BIOL 416, BIOL 466, BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2, BIOL 518, BIOL 520, BIOL 524, BIOL 544, BIOL 546, BIOL 551, BIOL 565, BIOL 568, BIOL 569, BIOL 575, BIOL 588, BIOL 592, BIOC 311, HGEN 400, MIMM 314

11.13.5.4.1.1 NBB: Neurobiology and behaviour

BIOL 300, BIOL 303, BIOL 304, BIOL 305, BIOL 306, BIOL 307, BIOL 309, BIOL 320, BIOL 377, BIOL 389, BIOL 413, BIOL 414, BIOL 466, BIOL 467, BIOL 468D1/D2, BIOL 469D1/D2, BIOL 506, BIOL 507, BIOL 517, BIOL 530, BIOL 532, BIOL 580, BIOL 588, BIOL 592, ANAT 321, ANAT 322, NEUR 310, PHAR 562, PHGY 311, PHGY 314, PHGY 425, PHGY 451, PHGY 556, PSYC 311, PSYC 318, PSYC 342, PSYC 410, PSYC 470, PSYC 455, PSYT 500

11.13.5.5 Biology Faculty

Chair

Gregor Fussmann

Graduate Program Director

Frédéric Guichard

Tamara Western: *Acting GPD*

Fiona Soper: *Acting Vice-GPD*

Emeritus Professors

Gregory G. Brown; A. Howard Bussey; Robert L. Carroll, *in memoriam*; Ronald Chase; Rajinder S. Dhindsa; Jacob Kalff; Donald L. Kramer; Martin J. Lechowicz; Louis Lefebvre; Barid B. Mukherjee; Gerald S. Pollack; Ronald Poole; Derek Roff; Rolf Sattler.

Professors

Ehab Abouheif; Graham A.C. Bell; Lauren Chapman; Melania Cristescu; Gregor Fussmann; Andrew Gonzalez; Irene Gregory-Eaves; Frédéric Guichard; Siegfried Hekimi; Andrew Hendry, *joint appt. with Redpath Museum*; Paul F. Lasko; Laura Nilson; Catherine Potvin; Neil M. Price; Richard Roy; Daniel J. Schoen.

Associate Professors

Gary Brouhard; Thomas E. Bureau; David Dankort; Joseph A. Dent; Paul Harrison; Michael Hendricks; Brian Leung; Nam-Sung Moon; Simon Reader; Rodrigo Reyes-Lamothe, *on sabbatical*; Jon Sakata; Frieder Schoeck; Jacalyn Vogel; Alanna Watt; Tamara Western; Sarah Woolley; Monique Zetka; Hugo Zheng.

Assistant Professors

Abigail Gerhold; Mélanie Guigueno; Anna Hargreaves; Arnold Hayer; Tomoko Ohyama; Lars Iversen; Laura Pollock; Fiona Soper; Jennifer Sunday; Stephanie C. Weber.

Associate Members

BioEngineering: Adam Hendricks

Centre for Research in Neuroscience: Donald Van Meyel

Glen site: Hugh J. Clarke, Daniel Dufort, David Rosenblatt, Teruko Taketo

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

Canadian Mountain Network Norma Kassi

IRCM: David Hipfner

STRI: Hector Guzman, William Owen McMillan, Rachel Page, 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)	Functional Biology of Plants and Animals
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)

The Liberal Program - Core Science Component Biology is a flexible program focusing on the fundamentals of biology. Topics include a range of biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution. This program is well suited to students with varied interests who do not want to focus solely on biology in their studies.

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 (24 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 216	(3)	Biology of Behaviour
BIOL 302	(3)	Fundamentals of Genetics and Genomics
COMP 204	(3)	Computer Programming for Life Sciences

Complementary Courses (21-23 credits)

Core (6-8 credits)

3 or 4 credits selected from:

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1

* If a student has already taken CHEM 212 or its equivalent, the credits can be made up with CHEM 204, CHEM 222, or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

3 or 4 credits selected from:

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 311	(3)	Advanced Methods in Organismal Biology

Other (15 credits)

15 credits of Biology complementary courses at the 300-500 levels, including at least 3 credits at the 400-500 levels. Up to 6 credits may be from non-BIOL science courses, with Adviser permission. Up to 6 credits of independent research may be included.

11.13.5.8 Bachelor of Science (B.Sc.) - Major Biology (59 credits)

The Biology Major covers a range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution. The areas of focus include: (1) molecular, cellular and developmental biology, (2) conservation, ecology and evolution, and (3) neurobiology and behaviour.

Required Courses (31 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 216	(3)	Biology of Behaviour
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 302	(3)	Fundamentals of Genetics and Genomics
BIOL 311	(3)	Advanced Methods in Organismal Biology
COMP 204	(3)	Computer Programming for Life Sciences

Complementary Courses (27-28 credits)

Core 12-13 credits

3 or 4 credits selected from CHEM block:

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1

* If a student has already taken CHEM 212 or its equivalent, the credits can be made up with CHEM 204, or CHEM 222, or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

9 credits (3 credits from each of Blocks A, B and C):

Block A-Ecology and Evolution:

BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics

Block B-Molecular and Cellular:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 313	(3)	Eukaryotic Cell Biology

Block C-Neuro/Behaviour:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology

Other (15 credits)

15 credits other Biology courses at the 300-500 levels, of which 6 credits must be at the 400-500 levels; may include up to 6 credits of research, and may include up to 6 credits of other non-BIOL science courses subject to Adviser approval.

11.13.5.9 Bachelor of Science (B.Sc.) - Major Biology - Quantitative Biology (73 credits)

Interdisciplinary research that draws from the natural and physical sciences is an important aspect of modern biology. The Quantitative Biology option is designed for students with a deep interest in biology who wish to gain a strong grounding in physical sciences and their application to biological questions. The program has two options: an ecology and evolutionary biology stream, and a physical biology stream. Both streams provide a balance of theory and experimental components.

Students may complete this program with a minimum of 68 credits or a maximum of 73 credits depending on whether MATH 222 and CHEM 212 are completed.

Advising notes for U0 students

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the Quantitative Biology option.

This program is recommended for U1 students achieving a CGPA of 3.20 or better; and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (43 credits)

Bio-Physical Sciences Core (31 credits)

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming
MATH 222*	(3)	Calculus 3

MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

*Students who have taken the equivalent of CHEM 212 or MATH 222 can make up the credits with a complementary 3 or 4 credit course in consultation with a stream adviser.

**Students who have sufficient knowledge of programming should take COMP 250 Introduction to Computer Science rather than COMP 202.

Biology (6 credits)

BIOL 202	(3)	Basic Genetics
BIOL 215	(3)	Introduction to Ecology and Evolution

Physics (6 credits)

PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves

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)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics

Field Courses - 3 credits from the following list or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 432	(3)	Limnology

6 credits chosen from the following list of courses at the 400 level or above:

* Students choose either both BIOL 596 and BIOL 597, or BIOL 598.

BIOL 432	(3)	Limnology
BIOL 434	(3)	Theoretical Ecology
BIOL 435	(3)	Natural Selection
BIOL 465	(3)	Conservation Biology
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 510	(3)	Advances in Community Ecology
BIOL 515	(3)	Advances in Aquatic Ecology
BIOL 540	(3)	Ecology of Species Invasions
BIOL 594	(3)	Advanced Evolutionary Ecology

BIOL 596*	(1)	Advanced Experimental Design
BIOL 597*	(2)	Advanced Biostatistics
BIOL 598*	(3)	Advanced Design and Statistics

Stream 2: Physical Biology (21 credits)

BIOL 319	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications
PHYS 346	(3)	Majors Quantum Physics

300-level complementary courses: 6 credits from the following:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 309	(3)	Mathematical Models in Biology
BIOL 313	(3)	Eukaryotic Cell Biology

500-level complementary courses: 6 credits from the following:

BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 530	(3)	Advances in Neuroethology
BIOL 551	(3)	Principles of Cellular Control
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology

Complementary Courses

Quantitative Biology - Theoretical Ecology and Evolutionary Biology, and Physical Biology streams

9 credits from the following:

Recommendations for either Theoretical Ecology and Evolutionary Biology or Physical Biology streams

BIOL 466	(3)	Independent Research Project 1
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 350*	(3)	Numerical Computing
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)	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 Mathematics
MATH 423	(3)	Applied Regression
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHYS 329	(3)	Statistical Physics with Biophysical Applications

11.13.5.10 Bachelor of Science (B.Sc.) - Major Biology and Mathematics (76 credits)

This program is built on a selection of mathematics and biology courses that recognize mathematical biology as a field of research, with three streams within biology: Ecology and Evolutionary Ecology, Molecular Evolution, and Neurosciences.

Advising notes for U0 students:

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the program.

This program is recommended for U1 students achieving a CGPA of 3.2 or better, and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (37 credits)

Bio-Physical Sciences Core

28 credits

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming
MATH 222*	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra
MATH 247***	(3)	Honours Applied Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability

* If a student has already taken CHEM 212 or its equivalent, or MATH 222 or its equivalent, the credits can be made up with a complementary course in consultation with the Program Adviser.

** Students who have sufficient knowledge in a programming language should take COMP 250 (3 credits) "Introduction to Computer Science" rather than COMP 202.

*** Students may take either MATH 223 or MATH 247.

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)	Partial Differential Equations
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327*	(3)	Matrix Numerical Analysis

Stream 2: Statistics

9 credits from the following:

MATH 324	(3)	Statistics
MATH 423	(3)	Applied Regression
MATH 447	(3)	Introduction to Stochastic Processes

Remaining Math Courses

Remaining 3-9 credits of MATH courses may be chosen from any of the two preceding sequences and/or from the following list:

MATH 204	(3)	Principles of Statistics 2
MATH 340	(3)	Discrete Mathematics
MATH 437	(3)	Mathematical Methods in Biology
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

BIOL, NEUR, PHGY, PHYS, PSYC Courses

18 credits (if 3 credit BIOL course was selected as a research course) or 15 credits (if 6 credit BIOL research course was selected) of BIOL, NEUR, PHGY, PHYS, PSYC courses including one of three streams.

Note: Some courses in the streams may have prerequisites.

Ecology and Evolutionary Ecology Stream

At least 15 credits selected as follows:

3 credits of:

BIOL 206	(3)	Methods in Biology
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3 credits from the following field courses or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1	(1.5)	Applied Tropical Ecology
BIOL 334D2	(1.5)	Applied Tropical Ecology
BIOL 432	(3)	Limnology
BIOL 573	(3)	Vertebrate Palaeontology Field Course

At least 9 credits chosen from the following list

BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 304	(3)	Evolution

BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 324	(3)	Ecological Genetics
BIOL 434	(3)	Theoretical Ecology
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 569	(3)	Developmental Evolution
BIOL 594	(3)	Advanced Evolutionary Ecology

Molecular Evolution Stream

At least 15 credits selected as follows:

3 credits

BIOL 202	(3)	Basic Genetics
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At least 12 credits selected from the following list:

BIOL 303	(3)	Developmental Biology
BIOL 304	(3)	Evolution
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 569	(3)	Developmental Evolution
BIOL 592	(3)	Integrated Bioinformatics

Neurosciences Stream

At least 15 credits selected as follows:

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
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At least 12 credits selected from:

BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 530	(3)	Advances in Neuroethology
BIOL 580	(3)	Genetic Approaches to Neural Systems
NEUR 310	(3)	Cellular Neurobiology
NEUR 507	(3)	Topics in Radionuclide Imaging
NEUR 570	(3)	Human Brain Imaging
PHGY 314	(3)	Integrative Neuroscience
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 552	(3)	Cellular and Molecular Physiology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYT 455	(3)	Neurochemistry

PSYT 502 (3) Brain Evolution and Psychiatry

Remaining BIOL, NEUR, PHGY, PSYC

For the remaining BIOL, NEUR, PHGY, PSYC complementary course credits, if any, students top up their credits to the necessary 18-21 credits with any course listed in the above three streams. Other relevant courses may be substituted with the approval of the Program Adviser.

11.13.5.11 Bachelor of Science (B.Sc.) - Honours Biology (72 credits)

The Honours program in Biology is intended for students who are interested in gaining a concentrated research experience. A broad range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution is supplemented with research in a chosen area. Potential areas of focus include: (1) molecular, cellular and developmental biology, (2) conservation, ecology and evolution, and (3) neurobiology and behaviour.

Acceptance into the Honours program at the end of U2 requires a CGPA of 3.50 and approval of a 9- or 12-credit Independent Studies proposal (see listing of BIOL 479D1/BIOL 479D2, BIOL 480D1/BIOL 480D2 for details). For an Honours degree, a minimum CGPA of 3.50 at Graduation and adherence to the program as outlined below are the additional requirements.

First Class Honours will be awarded to students graduating with a CGPA of 3.75 or better, and having successfully completed the Honours program

Required Courses (35 credits)

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 215	(3)	Introduction to Ecology and Evolution
BIOL 216	(3)	Biology of Behaviour
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 302	(3)	Fundamentals of Genetics and Genomics
BIOL 311	(3)	Advanced Methods in Organismal Biology
BIOL 499D1	(2)	Honours Seminar in Biology
BIOL 499D2	(2)	Honours Seminar in Biology
COMP 204	(3)	Computer Programming for Life Sciences

Complementary Courses (36-37 credits)

Core 12-13 credits:

3 or 4 credits selected from CHEM block:

CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 212*	(4)	Introductory Organic Chemistry 1

* If a student has already taken CHEM 212 or its equivalent, the credits can be made up with CHEM 204, CHEM 222, or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

9 credits (3 credits from each of Block A, Block B and Block C):

Block A- Ecology and Evolution:

BIOL 304	(3)	Evolution
BIOL 305	(3)	Animal Diversity
BIOL 308	(3)	Ecological Dynamics

Block B- Molecular and Cellular:

BIOL 300	(3)	Molecular Biology of the Gene
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BIOL 303	(3)	Developmental Biology
BIOL 313	(3)	Eukaryotic Cell Biology

Block C-Neuro/Behaviour:

BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology

Honours Block (9-12 credits)

BIOL 479D1	(4.5)	Honours Research Project 1
BIOL 479D2	(4.5)	Honours Research Project 1

OR

BIOL 480D1	(6)	Honours Research Project 2
BIOL 480D2	(6)	Honours Research Project 2

Other (12-15 credits)

15 credits of Biology courses at the 300-500 levels if taking BIOL 479D1/D2, or 12 credits if taking BIOL 480D1/D2. With permission of the Biology Adviser, up to 6 credits may be taken from other science department courses (300-500 levels). Up to 3 credits of previous independent research courses may be included. Must include 6 credits of 400-500 levels.

11.13.5.12 Bachelor of Science (B.Sc.) - Honours Biology - Quantitative Biology (79 credits)

79 credits

Interdisciplinary research that draws from the natural and physical sciences is an important aspect of modern biology. The Quantitative Biology (QB) Honours option is designed for students with a deep interest in biology who wish to gain a strong grounding in physical sciences and their application to biological questions through both coursework and a research project. The QB B.Sc. Honours option has two streams: a theoretical ecology and evolutionary biology stream and a physical biology stream. Both streams provide a balance of theory and experimental components that along with a research component will provide outstanding preparation for graduate training. Students must attain a 3.50 CGPA to enter and to complete the Honours program. First Class Honours will be awarded to students in the QB Honours option graduating with a CGPA of 3.75 or greater.

Students may complete this program with a minimum of 74 credits or a maximum of 79 credits depending on whether MATH 222 and CHEM 212 are completed.

Advising notes for U0 students

It is highly recommended that freshman BIOL, CHEM, MATH, and PHYS courses be selected with the Program Adviser to ensure they meet the core requirements of the Quantitative Biology option.

This program is recommended for U1 students achieving a CGPA of 3.20 or better; and entering CEGEP students with a Math/Science R-score of 28.0 or better.

Required Courses (49 credits)

Bio-Physical Sciences Core (31 credits)

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming
MATH 222***	(3)	Calculus 3
MATH 223***	(3)	Linear Algebra

MATH 247**	(3)	Honours Applied Linear Algebra
MATH 315+	(3)	Ordinary Differential Equations
MATH 323++	(3)	Probability
MATH 324+++	(3)	Statistics
MATH 325+	(3)	Honours Ordinary Differential Equations
MATH 356++	(3)	Honours Probability
MATH 357+++	(3)	Honours Statistics

* Students who have taken the equivalent of CHEM 212 or MATH 222 can make up the credits with complementary 3 or 4 credit courses in consultation with a stream adviser.

** Students who have sufficient knowledge of programming should take COMP 250 Introduction to Computer Science rather than COMP 202.

*** Students take MATH 223 or MATH 247.

+ Students take MATH 315 or MATH 325.

++ Students take MATH 323 or MATH 356.

+++ Students take MATH 324 or MATH 357.

Note: 6 credits of either MATH or PHYS courses to be taken at the honours level. Honours equivalents of core Math and Physics courses are listed. All 500-level Math courses are considered as honours courses and can be applied to the 6 credit requirement.

Biology (6 credits)

BIOL 202	(3)	Basic Genetics
BIOL 215	(3)	Introduction to Ecology and Evolution

Research Component (6 credits)

BIOL 468	(6)	Independent Research Project 3
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Physics (6 credits)

6 credits from:

PHYS 230*	(3)	Dynamics of Simple Systems
PHYS 232**	(3)	Heat and Waves
PHYS 251*	(3)	Honours Classical Mechanics 1
PHYS 253**	(3)	Thermal Physics

* Students take PHYS 230 or PHYS 251.

** Students take PHYS 232 or PHYS 253.

Course Requirements for Quantitative Biology Streams

21 credits from one of the following two streams:

Stream 1: Theoretical Ecology and Evolutionary Biology (21 credits)

Biology

12 credits from the following:

BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 206	(3)	Methods in Biology
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics

Field Courses

3 credits from the following list or any other field course with permission:

BIOL 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 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

9 credits from:

BIOL 319*	(3)	Introduction to Biophysics
PHYS 319*	(3)	Introduction to Biophysics
PHYS 329	(3)	Statistical Physics with Biophysical Applications
PHYS 346	(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)	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 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 I
MATH 340	(3)	Discrete Mathematics
MATH 423	(3)	Applied Regression
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
PHYS 329	(3)	Statistical Physics with Biophysical Applications

11.13.5.13 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: mcgill.ca/science/undergraduate/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: mcgill.ca/science/undergraduate/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

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, is the success story of this generation. It demands a broad comprehension of biology and engineering, as well as detailed knowledge of at least one basic subject such as molecular genetics, protein chemistry, microbiology, or chemical engineering.

The **Minor in Biotechnology** is offered by the Faculties of Engineering and of Science, and students combine the Minor with the regular departmental Major (or Honours or Liberal) program. The Minor emphasizes an area relevant to biotechnology which is complementary to the main program.

Students should identify their interest in the Biotechnology Minor to their departmental academic adviser and to the program adviser of the Minor and, at the time of registration for the U2 year, should declare their intent to embark on the Minor. Before registering for the Minor, and with the agreement of the academic adviser, students must submit their course list to the program supervisor, who will certify that the student's complete program conforms to the requirements for the Minor. Students should ensure that they will have fulfilled the prerequisite requirements for the courses selected.

The course BIOT 505 *Selected Topics in Biotechnology* is considered as taught by the Faculty of Science.

11.13.6.3 General Regulations

To obtain the Minor in Biotechnology, students must:

- satisfy the requirements both for the departmental program and for the Minor;
- complete 24 credits, 18 of which must be exclusively for the Minor program, and outside of their primary program;
- obtain a grade of C or better in the courses presented for the Minor.

11.13.6.4 Biotechnology (BIOT) Minor Program**Program Supervisor**

Audrey Moores

Maass Chemistry Building
 801 Sherbrooke St. West Montreal, QC H3A 0B8
 Telephone: 514-398-4654
 Email: audrey.moores@mcgill.ca

Program Adviser

Chantal Grignon

Life Sciences Building
 3649 Sir William Osler, Montreal, QC H3G 0B1
 Telephone: 514-398-3622
 Email: chantal.grignon@mcgill.ca

11.13.6.5 Bachelor of Science (B.Sc.) - Minor Biotechnology (for Science Students) (24 credits)

To obtain the Minor Biotechnology, Science students must:

- satisfy both the requirements for the departmental program and for the Minor;
- complete 24 credits, 18 of which must be exclusively for the Minor program.*

* Approved substitutions must be made for any of the required courses which are part of the student's main program.

Required Courses (15 credits)

* Students may take either BIOL 201 or BIOC 212.

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOT 505	(3)	Selected Topics in Biotechnology
MIMM 211	(3)	Introductory Microbiology

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)	Biochemistry of Immune Diseases
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 414	(3)	Advanced Immunology
PHGY 513	(3)	Translational 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 Cancer
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 551	(3)	Principles of Cellular Control

Molecular Biology (Biochemistry)

BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

PSYT 455 (3) Neurochemistry

Physiology

EXMD 401 (3) Physiology and Biochemistry Endocrine Systems
 EXMD 502 (3) Advanced Endocrinology 1
 EXMD 503 (3) Advanced Endocrinology 02
 PHAR 562 (3) Neuropharmacology
 PHAR 563 (3) Endocrine Pharmacology
 PHGY 518 (3) Artificial Cells

Pollution

CHEE 593 (3) Industrial Water Pollution Control
 CIVE 225 (4) Environmental Engineering
 CIVE 430 (3) Water Treatment and Pollution Control
 CIVE 557 (3) Microbiology for Environmental Engineering

11.13.6.6 Biotechnology (BIOT) Related Programs

11.13.6.6.1 Program for Students in the Faculty of Engineering

See [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > Minor Programs > section 6.12.10.5: Bachelor of Engineering \(B.Eng.\) - Minor Biotechnology \(for Engineering Students\) \(24 credits\)](#) for details.

11.13.7 Chemistry (CHEM)

11.13.7.1 Location

Otto Maass Chemistry Building
 801 Sherbrooke Street West
 Montreal QC H3A 0B8
 Departmental Office: Room 322
 Telephone: 514-398-6999
 Website: mcgill.ca/chemistry

Student Advisory Office: Pulp & Paper Building, Room 118A
 Website: mcgill.ca/chemistry/current-undergraduate-students/advising

11.13.7.2 Office for Science and Society

The Office for Science and Society is dedicated to the promotion of critical thinking and the presentation of practical scientific information to the public, educators, and students in an accurate and responsible fashion. The Office answers queries from the public as well as from the media, with a view toward establishing scientific accuracy. The Office also offers a variety of educational and interesting presentations on scientific topics and its members contribute to a number of courses under the umbrella of “The World of Chemistry”.

Director

Joseph A. Schwarcz

Members

Ariel Fenster; David N. Harpp.

11.13.7.3 About Chemistry

Chemistry is both a pure science, offering a challenging intellectual pursuit, and an applied science whose technology is of fundamental importance to the economy and society. Modern chemists seek an understanding of the structure and properties of atoms and molecules to predict and interpret the properties

and transformations of matter and the energy changes that accompany those transformations. Many of the concepts of physics and mathematics are basic to chemistry, while chemistry is of fundamental importance to many other disciplines, such as the biological and medical sciences, geology, metallurgy, etc.

A degree in chemistry leads to a wide variety of professional vocations. The large science-based industries (petroleum refining, plastics, pharmaceuticals, etc.) all employ chemists in research, development, and quality control. Many federal and provincial departments and agencies employ chemists in research and testing laboratories. Such positions are expected to increase with the currently growing concern for the environment and for consumer protection. A background in chemistry is also useful as a basis for advanced study in other related fields, such as medicine and the biological sciences. For a business career, a B.Sc. in Chemistry can profitably be combined with a master's degree in Business Administration, or a study of law for work as a patent lawyer or forensic scientist.

Chemistry courses at the university level are traditionally divided into four areas of specialization:

1. organic chemistry, dealing with the compounds of carbon;
2. inorganic chemistry, concerned with the chemistry and compounds of elements other than carbon;
3. analytical chemistry, which deals with the identification of substances and the quantitative measurement of their compositions; and
4. physical chemistry, which treats the physical laws, kinetics, and energetics governing chemical reactions, behaviour of materials, and molecular structure.

Naturally, there is a great deal of overlap between these different areas, and the boundaries are becoming increasingly blurred. After a general course at the introductory level, courses in organic, inorganic, analytical, and physical chemistry are offered throughout the university years. Since chemistry is an experimental science, laboratory classes accompany most undergraduate courses. In addition, courses are offered in polymer, theoretical, green, nano, and biological chemistry to upper-year undergraduates.

There are two main programs in the Department of Chemistry: Honours and Major. There are also a number of B.Sc. Liberal and other programs available. Interested students may inquire about these at the Student Advisory Office, Room 118A, Pulp & Paper Building, or see mcgill.ca/chemistry/current-undergraduate-students/advising.

11.13.7.4 Chemistry Faculty

Chair

D. Perepichka

Director of Graduate Studies

N. Moitessier

Emeritus Professors

T.H. Chan; A. Eisenberg; B.C. Eu; D.G. Gray; E.D. Salin; M.A. Whitehead.

Professors

M.P. Andrews; P. Ariya; B.A. Arndtsen; K. Auclair; C.J. Barrett; D.S. Bohle; I.S. Butler; G. Cosa; M.J. Damha; T. Friš i ; D.N. Harpp; A. Kakkar; R.B. Lennox; C.J. Li; N. Luedtke; J. Mauzeroll; N. Moitessier; D. Perepichka; H. Sleiman; J.L. Gleason; Y.S. Tsantrizos; T.G.M. van de Ven; P. Wiseman; A. Moores.

Associate Professors

A.S. Blum; P. Kambhampati; J.-P. Lumb; A. Mittermaier; T. Preston; M. Harrington; L. Reven; B. Siwick.

Assistant Professors

R. Khaliullin; E. McCalla; M. McKeague; M.A. Légaré; C.J. Thibodeaux; L. Simine.

Adjunct Professors

I. Wharf; E. Lam.

Faculty Lecturers

L. Pavelka; S. Sewall; P. Sirjoosingh.

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)

The B.Sc.; Minor in Chemical Engineering is designed for Chemistry students who wish to study the problems of process engineering and its related subjects, and the important link between molecular sciences and industrial processing. This Minor will not provide requirements for registration as a licensed (professional) engineer.

Required Courses (18 credits)

CHEE 200	(3)	Chemical Engineering Principles 1
CHEE 204	(3)	Chemical Engineering Principles 2
CHEE 220	(3)	Chemical Engineering Thermodynamics
CHEE 314	(3)	Fluid Mechanics
CHEE 315	(3)	Heat and Mass Transfer
CHEE 351	(3)	Separation Processes

Complementary Courses (6 credits)

6 credits selected from any undergraduate courses offered by Chemical Engineering, excluding the following courses: CHEE 363, CHEE 456, CHEE 457, CHEE 494, CHEE 495 and CHEE 496.

11.13.7.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Chemistry - General (49 credits)

Program Prerequisites

PRE-PROGRAM REQUIREMENTS:

Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the 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)	Experimental Chemistry 1
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.

11.13.7.8 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
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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)	Experimental Chemistry 1
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
MATH 222**	(3)	Calculus 3
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (6 credits)

6 credits of Chemistry (CHEM) courses at the 400 level or higher, or MATH 315 plus 3 credits of Chemistry courses at the 400 level or higher.

11.13.7.9 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 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.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
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 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Experimental Chemistry 1
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

Complementary Course (6 credits)

6 credits from:

BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 365	(2)	Statistical Thermodynamics
MATH 315	(3)	Ordinary Differential Equations
MIMM 211	(3)	Introductory Microbiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

11.13.7.10 Bachelor of Science (B.Sc.) - Major Chemistry: Biophysical Chemistry (66 credits)

This program trains students in the fundamentals of chemistry and develops the physical science, computational, and mathematical skills needed for advanced biophysical chemistry research in the biomedical and biotechnology industries. The program features integrative, interdisciplinary courses in bio-physical sciences.

Program Prerequisites

Pre-Program Requirements: Students entering from the Freshman program must have included CHEM 110 and CHEM 120 or CHEM 115, BIOL 111 or BIOL 112, MATH 133, MATH 140/MATH 141 or MATH 150/MATH 151, PHYS 131/PHYS 142, or their equivalents in their Freshman year. Quebec students must have completed the DEC with appropriate science and mathematics courses. Note that students who have successfully completed MATH 150 and MATH 151 do not have to take MATH 222.

Required Courses (59 credits)

The courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing the 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.

Completion of Mathematics MATH 222 and MATH 315 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.

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 319	(3)	Introduction to Biophysics
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1

MATH 222**	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
PHYS 329	(3)	Statistical Physics with Biophysical Applications

Chemistry

CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 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)	Magnetic Resonance Spectroscopy
CHEM 575	(3)	Chemical Kinetics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

11.13.7.11 Bachelor of Science (B.Sc.) - Honours Chemistry (71 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 (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 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)	Experimental Chemistry 1
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
MATH 222**	(3)	Calculus 3
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses (18 credits)

6 credits of research*:

* Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 470	(6)	Research Project 1
CHEM 480	(3)	Undergraduate Research Project 2

12 credits of additional Chemistry courses as follows:

6 credits of Chemistry courses at the 300 level or higher, or MATH 315 plus 3 credits of Chemistry courses at the 300 level or higher, and

6 credits of Chemistry courses at the 400 level or higher.

11.13.7.12 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 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 57 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 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.

* Denotes courses with CEGEP equivalents.

** Students who have successfully completed MATH 150 and MATH 151 are not required to take MATH 222.

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
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 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Experimental Chemistry 1
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

Complementary Courses (18 credits)

18 credits selected as follows:

6 credits of research*:

* Students may take up to 12 Research Project credits but only 6 of these may be used to fulfil the program requirement.

CHEM 470	(6)	Research Project 1
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CHEM 480 (3) Undergraduate Research Project 2

9 credits from the following:

BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 365	(2)	Statistical Thermodynamics
MATH 315	(3)	Ordinary Differential Equations
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

and 3 credits of additional Chemistry courses at the 400 level or higher.

11.13.7.13 Bachelor of Science (B.Sc.) - Honours Chemistry: Biophysical Chemistry (75 credits)

This program trains students in the fundamentals of chemistry and develops the physical science, computational, and mathematical skills needed for advanced biophysical chemistry research in the biomedical and biotechnology industries. The program features integrative, interdisciplinary courses in bio-physical sciences.

Program Prerequisites

Note: Attainment of the Honours degree requires a CGPA of at least 3.00.

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 courses marked with an asterisk (*) are omitted from the program of students who have successfully completed them at the CEGEP level. Students completing the 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.

Completion of Mathematics MATH 222 and MATH 315 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.

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 319	(3)	Introduction to Biophysics
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
MATH 222**	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
PHYS 329	(3)	Statistical Physics with Biophysical Applications

Chemistry

CHEM 213	(3)	Introductory Physical Chemistry 1: Thermodynamics
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 267	(3)	Introductory Chemical Analysis
CHEM 273	(3)	Introductory Physical Chemistry 2: Kinetics and Methods
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 345	(3)	Introduction to Quantum Chemistry
CHEM 355	(3)	Applications of Quantum Chemistry
CHEM 367	(3)	Instrumental Analysis 1
CHEM 377	(3)	Instrumental Analysis 2
CHEM 470	(6)	Research Project 1
CHEM 493	(2)	Advanced Physical Chemistry Laboratory
PHYS 242	(2)	Electricity and Magnetism

Complementary Courses

(9-10 credits)

3 credits of:

CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2

6-7 credits of:

BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 316	(3)	Biomembranes and Organelles
BIOL 551	(3)	Principles of Cellular Control
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 514	(3)	Biophysical Chemistry
CHEM 520	(3)	Methods in Chemical Biology
CHEM 555	(3)	Magnetic Resonance Spectroscopy
CHEM 575	(3)	Chemical Kinetics
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

11.13.7.14 Chemistry (CHEM) Related Programs**11.13.7.14.1 Joint Honours in Physics and Chemistry**For more information, see [section 11.13.30: Physics \(PHYS\)](#).**11.13.8 Cognitive Science****11.13.8.1 About Cognitive Science**

Cognitive Science is the multidisciplinary study of cognition in humans, animals, and machines. The goal is to understand the principles of intelligence and thought with the hope that this will lead to a better understanding of the mind and of learning, and to the development of intelligent devices.

Students wishing to enrol in the **Minor in Cognitive Science** must meet with the Interdisciplinary Programs Adviser in the Faculty of Science. Please refer to mcgill.ca/cogsci for advising information.

11.13.8.2 Bachelor of Science (B.Sc.) - Minor Cognitive Science (24 credits)

The Minor Cognitive Science is intended to allow students in the Faculty of Arts or the Faculty of Science to explore the interdisciplinary study of cognition. The goal is to understand the principles of intelligence with the hope that this will lead to a better understanding of the mind and learning.

Students wishing to complete this Minor must meet with the Interdisciplinary Programs Adviser in the Science Office for Undergraduate Student Advising (SOUSA).

Required Course (3 credits)

PSYC 433	(3)	Cognitive Science
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Complementary Courses (21 credits)

Note:

Students must take a minimum of 6 credits at the 400 to 500 level.

Students may not take any courses from their home department(s).

Students complete a minimum of 9 credits each in two areas.

Computer Science and Mathematics

COMP 206	(3)	Introduction to Software Systems
COMP 230	(3)	Logic and Computability
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 527	(3)	Logic and Computation
MATH 240	(3)	Discrete Structures
MATH 318	(3)	Mathematical Logic

Linguistics

Any course at the 300, 400 or 500 level from the department of Linguistics, or:

LING 201	(3)	Introduction to Linguistics
LING 210	(3)	Introduction to Speech Science
LING 260	(3)	Meaning in Language

Philosophy

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 341	(3)	Philosophy of Science 1
PHIL 411	(3)	Topics in Philosophy of Logic and Mathematics
PHIL 415	(3)	Philosophy of Language
PHIL 441	(3)	Philosophy of Science 2

PHIL 474 (3) Phenomenology

Psychology

PSYC 213 (3) Cognition
 PSYC 301 (3) Animal Learning and Theory
 PSYC 304 (3) Child Development
 PSYC 310 (3) Intelligence
 PSYC 311 (3) Human Cognition and the Brain
 PSYC 315 (3) Computational Psychology
 PSYC 340 (3) Psychology of Language
 PSYC 410 (3) Special Topics in Neuropsychology
 PSYC 413 (3) Cognitive Development

11.13.9 Computer Science (COMP)

11.13.9.1 Location

Main Office

McConnell Engineering Building, Room 318
 3480 University Street
 Montreal QC H3A 0E9
 Telephone: 514-398-7071
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Undergraduate Student Affairs Office

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11.13.9.2 About Computer Science

Computer Science covers the theory and practice behind the design and implementation of computer and information systems. Fundamental to computer science are questions about how to describe, process, manage, and analyse information and computation. A fundamental building block is the study of algorithms. An algorithm presents a detailed sequence of actions solving a particular task. A computer program is the implementation of an algorithm in a specific programming language, which enables a computer to execute the algorithm. Software generally refers to a computer program or a set of related computer programs.

Based on the building blocks of computational thinking and programming, computer science is split into many different areas. Examples are:

- The study of algorithms and data structures
- Programming languages and methodology
- Theory of computation
- Software engineering (the design of large software systems)
- Computer architecture (the structure of the hardware)
- Communication between computers
- Operating systems (the software that shields users from the underlying hardware)
- Database systems (software that handles large amounts of data efficiently)
- Artificial intelligence and Machine Learning (algorithms inspired by human information processing)
- Computer vision (algorithms that let computers see and recognize their environment)

- Computer graphics
- Robotics (algorithms that control robots)
- Computational biology (algorithms and methods that address problems inspired by biology)

Computer science also plays an important role in many other fields, including Biology, Physics, Engineering, Business, Music, and Neuroscience, where it is necessary to process and reason about large amounts of data. Computer Science is strongly related to mathematics, linguistics, and engineering.

A degree in Computer Science offers excellent job prospects. The use of computers and specialized software plays a crucial role in business, science, and our personal life. Computer science graduates are in high demand. Computer scientists find jobs in software development, consulting, research, and project management. As computer scientists often develop the software for a specific application domain (e.g., business, engineering, medicine), they must be prepared and willing to get to know their application area.

The School of Computer Science offers a wide range of programs. Most programs start with the same set of basic courses allowing students to decide on their exact program once they get a basic understanding of the discipline. Within the Faculty of Science, there are:

- Major, Honours, Liberal, and Minor programs in Computer Science;
- Major, Honours, and Liberal programs in Software Engineering;
- Major in Computer Science: Computer Games Option;
- Major and Honours in Mathematics and Computer Science (see [section 11.13.22: Mathematics and Statistics \(MATH\)](#));
- Major and Honours in Statistics and Computer Science (see [section 11.13.22: Mathematics and Statistics \(MATH\)](#));
- Major and Honours in Physics and Computer Science (see [section 11.13.30: Physics \(PHYS\)](#));
- Major and Honours in Computer Science and Biology (see [section 11.13.5: Biology \(BIOL\)](#)).

The School also offers a Major Concentration and Minor concentrations in Computer Science, and a Major Concentration in Software Engineering through the Faculty of Arts (see [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.7: Computer Science \(COMP\)](#)), or as part of a Bachelor of Arts and Science (see [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.10: Computer Science \(COMP\)](#)).

The School's courses are available as electives to Engineering students. Engineering students interested in a minor in Computer Science should consult [Faculty of Engineering > Undergraduate > Browse Academic Units & Programs > Minor Programs > section 6.12.10.7: Computer Science Courses and Minor Program](#).

Most course instructors are faculty members of the School that do research in the areas they teach. The School favours interactive teaching practices where students get to know their professors and have the opportunity to do cutting-edge research. Some graduate courses in Computer Science are available to suitably qualified senior undergraduates. The School offers large computing labs in the Lorne Trotter Building, which is dedicated to undergraduate students.

All students planning to enter Computer Science programs are strongly encouraged to make an appointment with an academic adviser through the School's Undergraduate Student Affairs Office (see [cs.mcgill.ca/academic/undergrad/advising](#)).

11.13.9.3 Internship Opportunities

Students who want to get practical experience in industry before graduation are encouraged to participate in one of the following internship programs:

- The **Internship Year in Science (IYS)** is offered for a duration of 8, 12, or 16 months. It will be reflected on the student's transcript and is included in the program name (Bachelor of Science – Internship Program).
- The **Industrial Practicum (IP)** has a duration of four months and is usually carried out starting in May. It will appear as a 0-credit, Pass/Fail course on the student's transcript. If a student completes two IPs, the program name will change to include the word “internship.”

For more information on these opportunities, consult [section 11.12: Science Internships and Field Studies](#) or [mcgill.ca/science/undergraduate/internships-field](#).

11.13.9.4 Research Opportunities

Computer science undergraduates have excellent opportunities to participate in research. Each summer, several awards are available, such as the NSERC Undergraduate Student Research Awards; these offer financial support for a research experience in an academic setting. Other research assistantship and volunteering opportunities in research labs are also available.

Students may also take undergraduate research project courses such as COMP 396 *Undergraduate Research Project*, COMP 400 *Project in Computer Science*, and COMP 401 *Project in Biology and Computer Science*. Students who have participated in substantial and broad undergraduate research may qualify for the Dean's Multidisciplinary Undergraduate Research List at graduation time. For more information, consult [University Regulations & Resources > Undergraduate > Graduation > Graduation Honours > section 1.9.3.3: Faculty of Science Dean's Multidisciplinary Undergraduate Research List](#).

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 or COMP 204 or COMP 208. For example, 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 [cs.mcgill.ca](#).

11.13.9.6 Computer Science Faculty**Director**

M. Blanchette

Emeritus Professors

D. Avis; R. De Mori; T.H. Merrett; M.M. Newborn; C. Paige; D. Thérien; C. Tropper.

Professors (Post-Retirement)

N. Friedman; C. Tropper; G.F.G. Ratzler.

Professors

L. Devroye; G. Dudek; X. Liu; P. Panangaden; B. Pientka; B. Reed; M. Robillard; K. Siddiqi; A. Vetta.

Associate Professors

M. Blanchette; X.-W. Chang; J. Cheung; C. Crépeau; C. Dubach; H. Hatami; B. Kemme; J. Kienzle; P. Kry; M. Langer; M. Maheswaran; D. Meger; J. Pineau; D. Precup; D. Ruths; C. Verbrugge; J. Waldispühl.

Assistant Professors

O. Balmau; J. Guo; Y.Li; H.C. Lin; E. Patitsas; R. Rabbany; M. Ravanbakhsh; S. Reddy; B. Richards; R. Robere; D. Rolnick; X. Si.

Faculty Lecturers

G. Alberini; D. Beccerra; J. D'Silva; J. Vybihal.

Associate MembersL. Addario-Berry (*Math & Stats*); S. Baillet (*Neurology and Neurosurgery*); P. Bashivan (*Physiology*); D. Bzdok (*Biological and Biomedical Engineering*); L. Collins (*Neurology and Neurosurgery*); B. Fung (*Information Studies*); S. Gravel (*Human Genetics*); D. Nowrouzezahrai (*Electrical and Computer Engineering*); T. O'Donnell (*Linguistics*); P. Savadjiev (*Diagnostic Radiology*); D. Schlimm (*History and Philosophy of Mathematics*); M. Sonderegger (*Linguistics*); T. Shultz (*Psychology*); Y. Yang (*Mathematics and Statistics*).**Adjunct Professors**

S. Andrews, D. Bahdanaum, M.G. Bellemare, X. Chen, F. Diaz, K. Dziugaite, G. Grant, W. Hamilton, S.E. Kahou, T. Kuo, A. Louis, I. Rekleitis, B. Shepherd, A.R. Soriano, A. Szantner, D. Tarlow, A. Trischler

11.13.9.7 Bachelor of Science (B.Sc.) - Minor Computer Science (24 credits)

Students must obtain approval from their main program adviser, and are also strongly encouraged to speak with a School of Computer Science adviser before choosing complementary courses. A particular course selection must be approved before the student registers for their final term of studies.

Students should note that COMP 251 is a prerequisite for many upper level COMP courses. Upper level COMP courses may have prerequisites that are not part of the Minor such as MATH 222, MATH 223, or MATH 323. Students will not get credit for these courses toward the Minor.

Students may receive up to 6 credits toward the Minor by taking certain approved courses outside the School of Computer Science. These courses must have a high computer science content and must be approved by the School of Computer Science in advance. If a student's Major program requires Computer Science courses, up to 6 credits of Computer Science courses may be used to fulfill both Major and Minor requirements.

Required Courses (9 credits)

* Students who have sufficient knowledge of computer programming 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

Complementary Courses (15 credits)

15 credits selected from the courses below and computer science courses at the 300 level or above (except COMP 364 and COMP 396).

COMP 251	(3)	Algorithms and Data Structures
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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 Mathematics

Group C

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

Group D

COMP 302	(3)	Programming Languages and Paradigms
COMP 303	(3)	Software Design

An additional 3 credits may be selected from Group A or B.

The remaining complementary credits must be selected from any COMP courses at the 300 level or above except COMP 364 and COMP 396.

11.13.9.9 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Software Engineering (49 credits)

This program covers a core of programming and software engineering courses and allows students to select courses that aim at practical aspects of software development.

Required Courses (36 credits)

* 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 310	(3)	Operating Systems
COMP 361D1	(3)	Software Engineering Project
COMP 361D2	(3)	Software Engineering Project
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (13 credits)

3 credits selected from:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

10 credits from:

COMP 322	(1)	Introduction to C++
COMP 409	(3)	Concurrent Programming
COMP 421	(3)	Database Systems
COMP 520	(4)	Compiler Design
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture
COMP 533	(3)	Model-Driven Software Development
COMP 535	(4)	Computer Networks 1
ECSE 326	(3)	Software Requirements Engineering
ECSE 437	(3)	Software Delivery
ECSE 539	(4)	Advanced Software Language Engineering

Or any COMP courses at the 300 level or above (excluding COMP 364 and COMP 396.)

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 knowledge of several sub-disciplines. At the same time, its credit requirements allow students to take an additional minor.

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from taking COMP 202.

Required Courses (33 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
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (30 credits)

Students should talk to an academic adviser before choosing their complementary courses.

At least 6 credits selected from:

COMP 330	(3)	Theory of Computation
COMP 350	(3)	Numerical Computing
COMP 360	(3)	Algorithm Design

3-9 credits selected from:

* Must include at least one of MATH 323 and MATH 340.

MATH 318	(3)	Mathematical Logic
MATH 323*	(3)	Probability
MATH 324	(3)	Statistics
MATH 340*	(3)	Discrete Mathematics

At least 6 credits at the 400-level or above.

The remaining credits selected from computer science courses at the 300 level or above (except COMP 364 and COMP 396) and ECSE 539.

Note: Students have to make sure that they have the appropriate prerequisites when choosing upper-level courses.

11.13.9.11 Bachelor of Science (B.Sc.) - Major Computer Science and Biology (74 credits)

This program will focus on the fundamentals of biology and will give them computational and mathematical skills needed to manage, analyze, and model large biological datasets. Integrative features of the program include interdisciplinary introductory and seminar courses in bio-physical sciences, and a joint independent studies project.

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 Cancer
BIOL 316	(3)	Biomembranes and Organelles
BIOL 319	(3)	Introduction to Biophysics
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 395	(1)	Quantitative Biology Seminar
BIOL 416	(3)	Genetics of Mammalian Development
BIOL 434	(3)	Theoretical Ecology
BIOL 435	(3)	Natural Selection
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 518	(3)	Advanced Topics in Cell Biology

BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 568	(3)	Topics on the Human Genome
BIOL 569	(3)	Developmental Evolution
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 (65 credits)

This program is a specialization within Computer Science. It fulfils all the basic requirements of the Major Computer Science. The program focuses 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 65 credits depending on whether they are exempt from taking COMP 202.

Required Courses

(46-49 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 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	(4)	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 (16 credits)

3 credits selected from:

COMP 350	(3)	Numerical Computing
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COMP 360 (3) Algorithm Design

At least 7 credits selected from:

COMP 308 (1) Computer Systems Lab
 COMP 424 (3) Artificial Intelligence
 COMP 521 (4) Modern Computer Games
 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

At least 6 credits selected from:

COMP 409 (3) Concurrent Programming
 COMP 421 (3) Database Systems
 COMP 535 (4) Computer Networks 1

11.13.9.13 Bachelor of Science (B.Sc.) - Major Software Engineering (63 credits)

This program provides a broad introduction to the principles of computer science and covers in depth the design and development of software systems. Students may complete this program with a maximum of 63 credits or a minimum of 60 credits if they are exempt from taking COMP 202.

Required Courses

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
COMP 555	(4)	Software Privacy
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 535	(4)	Computer Networks 1
COMP 551	(4)	Applied Machine Learning
COMP 557	(4)	Fundamentals of Computer Graphics
COMP 558	(4)	Fundamentals of Computer Vision
COMP 585	(4)	Intelligent Software Systems

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 exempt from taking COMP 202.

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Required Courses (48 credits)

* 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
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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 Mathematics
MATH 350**	(3)	Honours Discrete Mathematics

Complementary Courses (27 credits)

6 credits selected from:

MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

The remaining credits selected from computer science courses at the 300 level or above (except COMP 364 and COMP 396) and ECSE 539. At least 12 credits must be at the 500 level.

11.13.9.15 Bachelor of Science (B.Sc.) - Honours Computer Science and Biology (77 credits)

This program focuses on the fundamentals of biology with a focus on molecular biology, and gives them computational and mathematical skills needed to manage, analyze, and model large biological datasets. Compared to the Joint Major counterpart, this program requires additional research credits and a larger number of advanced courses. Students must maintain a minimum CGPA of 3.5. To graduate with First Class Honours, the CGPA must be at least 3.75.

Students may complete this program with a minimum of 67 and a maximum of 77 credits, depending upon whether they take COMP 202/204, CHEM 212, MATH 222.

Program Prerequisites: U0 (freshman) students should take: BIOL 111-112, CHEM 110-120, MATH 133, MATH 140-141 or MATH 150-151, PHYS 101-102 or PHYS 131-142. Note that MATH 150-151 provides equivalence for required course MATH 222.

Students who do not have a background in computer programming at the level of COMP 202 or COMP 204 must take one of these courses. COMP 204 is considered equivalent to COMP 202 as a prerequisite for COMP 206 and COMP 250.

Required Courses

43-53 credits:

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
COMP 202**	(3)	Foundations of Programming

MATH 222*	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 323	(3)	Probability

Computer Science and Mathematics

COMP 204**	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252***	(3)	Honours Algorithms and Data Structures
COMP 561	(4)	Computational Biology Methods and Research
MATH 240	(3)	Discrete Structures

Biology

BIOL 202	(3)	Basic Genetics
BIOL 215	(3)	Introduction to Ecology and Evolution

Joint Courses

COMP 402D1	(3)	Honours Project in Computer Science and Biology
COMP 402D2	(3)	Honours Project in Computer Science and Biology

* Students with CEGEP-level credit for the equivalents of MATH 222 and/or CHEM 212 (see <http://www.mcgill.ca/students/courses/plan/transfer/> for accepted equivalents) may not take these courses at McGill and should replace them with 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 of programming are not required to take these courses.

Complementary Courses (24 credits)

3-6 credits from the following:

MATH 315	(3)	Ordinary Differential Equations
MATH 324	(3)	Statistics

The remaining 18-21 credits 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 at least 3 credits at the 400 level or above.

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

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 Cancer
BIOL 316	(3)	Biomembranes and Organelles
BIOL 319	(3)	Introduction to Biophysics
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 395	(1)	Quantitative Biology Seminar
BIOL 416	(3)	Genetics of Mammalian Development
BIOL 434	(3)	Theoretical Ecology
BIOL 435	(3)	Natural Selection
BIOL 509	(3)	Methods in Molecular Ecology
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development
BIOL 524	(3)	Topics in Molecular Biology
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 568	(3)	Topics on the Human Genome
BIOL 569	(3)	Developmental Evolution
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

11.13.9.16 Bachelor of Science (B.Sc.) - Honours Software Engineering (75 credits)

This program provides a more challenging and research-oriented version of the Major Software Engineering program.

Students may complete this program with a maximum of 75 credits or a minimum of 72 credits if they are exempt from taking COMP 202.

Honours students must maintain a CGPA of at least 3.00 during their studies and at graduation.

Required Courses

39-42 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
COMP 400	(4)	Project in Computer Science
ECSE 429	(3)	Software Validation
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures

Complementary Courses (33 credits)

At least 9 credits must be from Groups A and B, with at least 3 credits from each:

At least 18 credits must be from Groups C and D, with at least 9 credits from Group C and at least 6 credits from Group D.

At least 12 credits must be from COMP courses at the 500 level or above.

Group A:

MATH 222	(3)	Calculus 3
MATH 323	(3)	Probability
MATH 324	(3)	Statistics

Group B:

COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design

Group C: Software Engineering Specialization

* Students may select either COMP 409 or ECSE 420, but not both.

COMP 409*	(3)	Concurrent Programming
COMP 523	(3)	Language-based Security
COMP 525	(3)	Formal Verification
COMP 529	(4)	Software Architecture

COMP 533	(3)	Model-Driven Software Development
COMP 555	(4)	Software Privacy
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 535	(4)	Computer Networks 1
COMP 551	(4)	Applied Machine Learning
COMP 557	(4)	Fundamentals of Computer Graphics
COMP 558	(4)	Fundamentals of Computer Vision
COMP 585	(4)	Intelligent Software Systems

11.13.9.17 Computer Science (COMP) Related Programs

11.13.9.17.1 Major and Honours in Mathematics and Computer Science

For more information, see [section 11.13.22: Mathematics and Statistics \(MATH\)](#). Honours students must consult an Honours adviser in both departments.

11.13.9.17.2 Major and Honours in Statistics and Computer Science

For more information, see [section 11.13.22: Mathematics and Statistics \(MATH\)](#). Honours students must consult an Honours adviser in both departments.

11.13.9.17.3 Major and Honours in Physics and Computer Science

For more information, see [section 11.13.30: Physics \(PHYS\)](#). Honours students must consult an Honours adviser in both departments.

11.13.9.17.4 Minor in Cognitive Science

Students following Major or Honours programs in Computer Science may want to consider the Minor in Cognitive Science. For more information, see [section 11.13.8: Cognitive Science](#).

11.13.10 Earth and Planetary Sciences (EPSC)

11.13.10.1 Location

Frank Dawson Adams Building, Room 238
 3450 University Street
 Montreal QC H3A 0E8
 Telephone: 514-398-6767
 Fax: 514-398-4680
 Email: kristy.thornton@mcgill.ca
 Website: mcgill.ca/eps

11.13.10.2 About Earth and Planetary Sciences

Earth and Planetary Sciences is a multidisciplinary field that includes the solid Earth and its hydrosphere and extends to the neighbouring terrestrial planets. Principles of chemistry, physics, and mathematics are applied to elucidate the complex and diverse planetary processes at play as we seek to understand how planets like the Earth changed over time and continue to evolve.

Career opportunities are many and diverse in the Earth and Planetary Sciences. Graduates of the Major and Honours in Geology are often hired by resource exploration and extraction companies (industrial minerals, fossil and nuclear fuels, geothermal energy, ore deposits of base, precious and critical metals). Knowledge of geochemistry and hydrogeology is also valued in the environmental consulting sector. Industry or government agencies may hire undergraduate students during the summer months, providing them with both financial benefits and first-hand geoscientific experience. Career opportunities in planetary science can also be found in universities and research organizations.

The Department has a full-time staff of 17 professors and one faculty lecturer. There are approximately 75 graduate and 20-30 undergraduate students registered in the various programs offered. Classes are therefore small at all levels, resulting in an informal and friendly atmosphere throughout the Department, in which most of the faculty and students interact on a first-name basis. Emphasis is placed equally on quality teaching and research, providing undergraduate students with a rich and exciting environment in which to explore and learn.

11.13.10.3 Undergraduate Studies

The undergraduate curriculum is designed to provide both a strong foundation in the physical sciences and the flexibility to create an individualized program in preparation for careers in industry, teaching, or research. In addition to the **Major** and **Honours** undergraduate programs, the Department is one of the three departments that actively contribute to the Earth System Science Interdepartmental program, and also offers a **Joint Major in Physics and Geophysics**, which combines a rigorous mathematics and physics curriculum with exposure to the geosciences.

The **Minor in Geology** offers students from other departments the opportunity to discover the earth sciences in the classroom and in the field, while the **Minor in Geochemistry** is designed for Chemistry Major students who want to apply chemical principles to the study of planetary processes.

Students in a B.A. program may choose Earth and Planetary Sciences as their area of specialization for the **Minor Concentration for Arts Students**.

Students interested in any of the programs should inquire at:

Frank Dawson Adams Building, Room 238
Telephone: 514-398-6767
Website: mcgill.ca/eps/studies/undergraduate

or should consult the Undergraduate Director:

Professor Jeanne Paquette
Frank Dawson Adams Building, Room 214
Telephone: 514-398-4402
Email: jeanne.paquette@mcgill.ca

11.13.10.4 Earth and Planetary Sciences Faculty

Chair

TBA

Emeritus Professors

Jafar Arkani-Hamed; Donald Francis; Reinhard Hesse; Andrew J. Hynes; Robert F. Martin; Alfonso Mucci.

Professors

Don Baker; Eric Galbraith; Galen Halverson; Olivia G. Jensen; Jeffrey McKenzie; John Stix; A.E. (Willy) Williams-Jones.

Associate Professors

Kim Berlo; Nicolas Cowan; Natalya Gomez; James Kirkpatrick; Yajing Liu; Jeanne Paquette; Christie Rowe; Vincent van Hinsberg.

Assistant Professors

Peter Douglas; Nagissa Mahmoudi.

Faculty Lecturer

W. Minarik.

Adjunct Professors

R. Harrington; R. Léveillé; H. Short; B. Sundby.

11.13.10.5 Bachelor of Science (B.Sc.) - Minor Geology (18 credits)

The Minor Geology offers students from other departments the opportunity to obtain exposure to the Earth Sciences.

Required Courses (6 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (12 credits)

3 credits, one of:

EPSC 201	(3)	Understanding Planet Earth
EPSC 233	(3)	Earth and Life History

9 credits selected from the list below and other 300-level and higher courses in Earth and Planetary Sciences may be substituted with permission.

EPSC 231	(3)	Field School 1
EPSC 303	(3)	Structural Geology
EPSC 334	(3)	Invertebrate Paleontology
EPSC 350	(3)	Tectonics
EPSC 452	(3)	Mineral Deposits
EPSC 561	(3)	Ore-forming Processes

11.13.10.6 Bachelor of Science (B.Sc.) - Minor Geochemistry (18 credits)

The Minor in Geochemistry focuses on the chemistry of Earth's lithosphere, its reactivity in contact with the atmosphere and/or the hydrosphere, and the chemistry of extra-terrestrial materials.

The appropriate background in chemistry is required: (CHEM 110 and CHEM 120, or their equivalent) and calculus (MATH 139 and MATH 141, or their equivalent).

Required Courses (9 credits)

EPSC 201	(3)	Understanding Planet Earth
EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology

Complementary Courses (9 credits)

9 credits selected from:

EPSC 220	(3)	Principles of Geochemistry
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 549	(3)	Hydrogeology
EPSC 570	(3)	Cosmochemistry
EPSC 590	(3)	Applied Geochemistry Seminar

11.13.10.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Earth and Planetary Sciences (45 credits)

The B.Sc. (Liberal) program in Earth and Planetary Sciences provides the graduate with a solid core of knowledge of Geology, Geophysics, Earth Systems Science, and Planetary Science while allowing for a broadening of the student's educational experience with courses from the other sciences or the arts. The program is flexible, allowing students to assemble a truly interdisciplinary degree.

Required Courses (21 credits)

EPSC 210	(3)	Introductory Mineralogy
EPSC 212	(3)	Introductory Petrology
EPSC 220	(3)	Principles of Geochemistry
EPSC 231	(3)	Field School 1
EPSC 233	(3)	Earth and Life History
EPSC 303	(3)	Structural Geology
EPSC 320	(3)	Elementary Earth Physics

Complementary Courses (24 credits)

3 credits, one of:

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

plus 21 credits chosen from the following:

Note: Courses at the 300 or higher level in other departments in the Faculties of Science and Engineering may also be used as complementary credits, with the permission of the Director of undergraduate studies.

EPSC 334	(3)	Invertebrate Paleontology
EPSC 340	(3)	Earth and Planetary Inference
EPSC 350	(3)	Tectonics
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 435	(3)	Applied Geophysics
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits
EPSC 501	(3)	Crystal Chemistry
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 530	(3)	Volcanology
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
EPSC 570	(3)	Cosmochemistry

EPSC 580	(0)	
EPSC 590	(3)	Applied Geochemistry Seminar
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 500	(3)	Earth System Applications

11.13.10.8 Bachelor of Science (B.Sc.) - Major Geology (66 credits)

The program curriculum provides a rigorous foundation in the fundamental earth science subjects and in the advanced subjects relevant to exploration for energy resources, industrial and ore minerals, and to environmental geosciences. The program meets the academic requirements shared by the professional orders for geologists and environmental geoscientists in most Canadian provinces. It also offers students the opportunity to take courses or acquire experience in areas of current research. It is a path to a wide range of careers in industry, teaching and research in earth sciences.

Required Courses (30 credits)

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
MATH 222	(3)	Calculus 3

Complementary Courses (36 credits)

15 credits of advanced earth science

EPSC 334	(3)	Invertebrate Paleontology
EPSC 355	(3)	Sedimentary Geology
EPSC 423	(3)	Igneous Petrology
EPSC 425	(3)	Sediments to Sequences
EPSC 445	(3)	Metamorphic Petrology
EPSC 452	(3)	Mineral Deposits

3 credits of field school

EPSC 331	(3)	Field School 2
EPSC 341	(3)	Field School 3

3 credits of environmental and ore-forming processes

EPSC 513	(3)	Climate and the Carbon Cycle
EPSC 519	(3)	Isotopes in Earth and Environmental Science
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 590	(3)	Applied Geochemistry Seminar

15 credits of other specializations can be drawn from the categories above or from:

EPSC 350	(3)	Tectonics
EPSC 435	(3)	Applied Geophysics
EPSC 470D1	(3)	Undergraduate Thesis Research
EPSC 470D2	(3)	Undergraduate Thesis Research
EPSC 482	(3)	Research in Earth and Planetary Sciences
EPSC 501	(3)	Crystal Chemistry
EPSC 503	(3)	Advanced Structural Geology
EPSC 520	(3)	Earthquake Physics and Geology
EPSC 525	(3)	Microbiology of the Earth System
EPSC 530	(3)	Volcanology
EPSC 540	(0)	Crustal Rheology
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 567	(3)	Advanced Volcanology

Other ATOC, EPSC, ESYS, GEOG, MATH and MIME courses may also be used, with the permission of the Director of undergraduate studies, if they meet the academic requirements of professional orders in most Canadian provinces.

11.13.10.9 Bachelor of Science (B.Sc.) - Honours Geology (75 credits)

The program curriculum is designed to provide a rigorous foundation in the fundamental earth science disciplines and in the advanced subjects relevant to fundamental and applied research in exploration for energy resources or industrial and ore minerals, and in environmental geosciences. The program meets the academic requirements shared by the professional orders for geologists and environmental geoscientists in most Canadian provinces. It is intended to 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 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 590	(3)	Applied Geochemistry Seminar

12 credits of other specializations can be drawn from the categories above or from:

EPSC 350	(3)	Tectonics
EPSC 435	(3)	Applied Geophysics
EPSC 501	(3)	Crystal Chemistry
EPSC 503	(3)	Advanced Structural Geology
EPSC 510	(3)	Geodynamics
EPSC 520	(3)	Earthquake Physics and Geology
EPSC 530	(3)	Volcanology
EPSC 547	(3)	Modelling Geochemical Processes
EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 567	(3)	Advanced Volcanology

Courses from other departments may also be used, with the permission of the Director of undergraduate studies, when they meet the academic requirements of professional orders in most Canadian provinces.

11.13.10 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)

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 350	(3)	Tectonics
EPSC 423	(3)	Igneous Petrology
EPSC 480D1	(3)	Honours Research Thesis
EPSC 480D2	(3)	Honours Research Thesis
EPSC 510	(3)	Geodynamics
EPSC 570	(3)	Cosmochemistry
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Partial Differential Equations
PHYS 340	(3)	Majors Electricity and Magnetism

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 540	(0)	Crustal Rheology
EPSC 547	(3)	Modelling Geochemical Processes

EPSC 548	(3)	Igneous Petrogenetic Mechanisms
EPSC 549	(3)	Hydrogeology
EPSC 550	(3)	Selected Topics 1
EPSC 551	(3)	Selected Topics 2
EPSC 552	(3)	Selected Topics 3
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
EPSC 590	(3)	Applied Geochemistry Seminar

11.13.10.11 Earth and Planetary Sciences (EPSC) Related Programs

11.13.10.11.1 Joint Major in Physics and Geophysics

For more information, see [section 11.13.30: Physics \(PHYS\)](#).

11.13.10.11.2 Earth System Science Interdepartmental Major

This program is offered by the Departments of Atmospheric and Oceanic Sciences; Earth and Planetary Sciences; and Geography. Students in the Department of Earth and Planetary Sciences who are interested in this program should contact Professor William Minarik (william.minarik@mcgill.ca).

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

11.13.10.11.3 Earth System Science Interdepartmental Honours

This program is offered by the Departments of Atmospheric and Oceanic Sciences; Earth and Planetary Sciences; and Geography. Students in the Department of Earth and Planetary Sciences who are interested in this program should contact Professor William Minarik (william.minarik@mcgill.ca).

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

11.13.11 Earth System Science (ESYS)

11.13.11.1 Location

Program Adviser
 Dr. William Minarik
 Frank Dawson Adams, Room 215
 Telephone: 514-398-2596
 Email: william.minarik@mcgill.ca
 Website: ess.mcgill.ca

11.13.11.2 About Earth System Science

The McGill interdepartmental **Major** program in Earth System Science (ESYS) is designed to equip students with the skills and knowledge to address six “Grand Challenges” that are fundamental to our understanding of the way in which the Earth operates. These Grand Challenges are being tackled with scientific and technological innovation and interdisciplinary research, creating bountiful employment opportunities for ESYS graduates in industry, research institutions, and government. They are:

- Global biogeochemical cycles;
- Climate variability and change;
- Land use and land cover change;
- Energy and resources;
- Earth hazards: volcanoes, earthquakes, and hurricanes; and
- Earth-atmosphere observation, analysis, and prediction.

Many of our graduates go on to M.Sc. or Ph.D. programs in a variety of scientific fields that address these grand challenges, including those arising from the interaction of human activities and natural systems.

Career opportunities after a B.Sc. are diverse and increasing. Our graduates work for environmental consulting firms (assessing suitable sites for new industrial facilities and predicting their environmental impact, and cleaning contaminated sites), research groups in re-insurance firms (evaluating risks of natural disasters), in product's life cycle management (studying energy and resources use, and the effect of recycling or waste disposal), and software companies that develop algorithms to assist farmers on choices of crops and soil management practices, and business owners with inventory management.

The **Honours** program in Earth System Science (ESYS) prepares students for graduate studies in a wide range of transdisciplinary programs that address these challenges.

The ESS programs are offered jointly by the Department of [section 11.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#), the Department of [section 11.13.10: Earth and Planetary Sciences \(EPSC\)](#), and the Department of [section 11.13.17: Geography \(GEOG\)](#).

The individual departments, their disciplines, and specific courses offered by them are described in their respective entries in this publication.

11.13.11.3 Bachelor of Science - Minor Earth System Science (18 credits)

The Minor in Earth System Science (ESYS) is offered jointly by the following departments:

Atmospheric and Oceanic Sciences (ATOC)

Earth and Planetary Sciences (EPSC)

Geography (GEOG)

Required Courses (12 credits)

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

Complementary Courses (6 credits)

Two courses from 2 of 3 ESYS Departments (EPSC, ATOC, or GEOG), 300 level or higher, in consultation with the ESS student adviser.

11.13.11.4 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 (ATOC)

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 between all components of the Earth system. The approach concentrates on the nature of linkages among the biological, chemical, human, and physical subsystems of the Earth. Earth System Science primarily involves studying the cycling of matter and energy through the atmosphere, biosphere, cryosphere, exosphere, 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 (18 credits)

ENVR 201	(3)	Society, Environment and Sustainability
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 500	(3)	Earth System Applications
MATH 222	(3)	Calculus 3

Complementary Courses (39 credits)

3 credits from the following:

EPSC 340	(3)	Earth and Planetary Inference
MATH 203	(3)	Principles of Statistics 1

3 credits from the following:

COMP 202	(3)	Foundations of Programming
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

3 credits from the following:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 219	(3)	Introduction to Atmospheric Chemistry

3 credits from the following:

EPSC 210	(3)	Introductory Mineralogy
EPSC 220	(3)	Principles of Geochemistry

3 credits from the following:

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis

3 credits from the following:

ENVR 200	(3)	The Global Environment
GEOG 203	(3)	Environmental Systems

3 credits from the following:

BIOL 215	(3)	Introduction to Ecology and Evolution
ENVR 202	(3)	The Evolving Earth

3 credits from the following:

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

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.

ATOC 215	(3)	Oceans, Weather and Climate
ATOC 309	(3)	Weather Radars and Satellites
ATOC 312	(3)	Rotating Fluid Dynamics
ATOC 315	(3)	Thermodynamics and Convection
ATOC 404	(3)	Climate Physics
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 519	(3)	Advances in Chemistry of Atmosphere

ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
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 525	(3)	Microbiology of the Earth System
EPSC 530	(3)	Volcanology
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment

GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 351	(3)	Quantitative Methods
GEOG 372	(3)	Running Water Environments
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 470	(3)	Wetlands
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
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)	Partial Differential Equations
MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Applied Regression
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 404	(3)	Climate Physics
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 GPA of 3.20, and a minimum grade of B+ in ESYS 300, ESYS 301, and ESYS 500.

Required Courses (27 credits)

ENVR 201	(3)	Society, Environment and Sustainability
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
ESYS 301	(3)	Earth System Modelling
ESYS 480D1	(3)	Honours Research Project
ESYS 480D2	(3)	Honours Research Project
ESYS 500	(3)	Earth System Applications
MATH 222	(3)	Calculus 3
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (39 credits)

3 credits from the following:

EPSC 340	(3)	Earth and Planetary Inference
MATH 203	(3)	Principles of Statistics 1

3 credits from the following:

COMP 202	(3)	Foundations of Programming
COMP 208	(3)	Computer Programming for Physical Sciences and Engineering

3 credits from the following:

ATOC 214	(3)	Introduction: Physics of the Atmosphere
ATOC 219	(3)	Introduction to Atmospheric Chemistry

3 credits from the following:

EPSC 210	(3)	Introductory Mineralogy
EPSC 220	(3)	Principles of Geochemistry

3 credits from the following:

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis

3 credits from the following:

ENVR 200	(3)	The Global Environment
GEOG 203	(3)	Environmental Systems

3 credits from the following:

BIOL 215	(3)	Introduction to Ecology and Evolution
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ENVR 202 (3) The Evolving Earth

3 credits from the following:

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

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.

ATOC 215 (3) Oceans, Weather and Climate
 ATOC 309 (3) Weather Radars and Satellites
 ATOC 312 (3) Rotating Fluid Dynamics
 ATOC 315 (3) Thermodynamics and Convection
 ATOC 404 (3) Climate Physics
 ATOC 512 (3) Atmospheric and Oceanic Dynamics
 ATOC 513 (3) Waves and Stability
 ATOC 515 (3) Turbulence in Atmosphere and Oceans
 ATOC 519 (3) Advances in Chemistry of Atmosphere
 ATOC 521 (3) Cloud Physics
 ATOC 525 (3) Atmospheric Radiation
 ATOC 531 (3) Dynamics of Current Climates
 ATOC 540 (3) Synoptic Meteorology 1
 ATOC 541 (3) Synoptic Meteorology 2
 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 525	(3)	Microbiology of the Earth System
EPSC 530	(3)	Volcanology
EPSC 549	(3)	Hydrogeology
EPSC 561	(3)	Ore-forming Processes
EPSC 567	(3)	Advanced Volcanology
EPSC 590	(3)	Applied Geochemistry Seminar
GEOG 272	(3)	Earth's Changing Surface
GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 351	(3)	Quantitative Methods
GEOG 372	(3)	Running Water Environments
GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 414	(3)	Advanced Geospatial Analysis
GEOG 470	(3)	Wetlands
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 499	(3)	Subarctic Field Studies
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
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 317	(3)	Numerical Analysis
MATH 319	(3)	Partial Differential Equations

MATH 323	(3)	Probability
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 423	(3)	Applied Regression
MATH 437	(3)	Mathematical Methods in Biology
MATH 447	(3)	Introduction to Stochastic Processes
MATH 525	(4)	Sampling Theory and Applications
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 404	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids

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 [Bieler School of Environment > Undergraduate](#).

- Minor: [section 7.7.1: Minor in Environment](#)
- Major: [section 7.7.4: Major in Environment - B.Sc.\(Ag.Env.Sc.\) and B.Sc.](#) or [section 7.7.5: Major in Environment – B.Sc.](#)
- Honours: [section 7.7.6: Honours Program in Environment](#)
- Diploma: [section 7.7.8: Diploma in Environment](#)

11.13.14 Experimental Medicine (EXMD)

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, 34700 or 36465
 Email: experimental.medicine@mcgill.ca
 Website: 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 501	(3)	Clinical Applications of Regenerative Medicine
EXMD 502	(3)	Advanced Endocrinology 01
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 504	(3)	Biology of Cancer
EXMD 505	(3)	Directed Readings in Regenerative Medicine
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 [Field Study Programs](#).

11.13.15.1 Field Studies - Minor Field Studies (18 credits)

Students participating in any one of the field study semesters, i.e., the Africa Field Study Semester, the Barbados Field Study Semester, the Barbados Interdisciplinary Tropical Studies (BITS) Field Study Semester, McGill Arctic Field Study Semester, or the Panama Field Study Semester may complete the 18-credit Minor in Field Studies.

The Minor consists of the 15 credits of a field study semester plus three additional complementary credits chosen by the student in consultation with their departmental adviser and/or the Field Study Minor adviser.

For students in the B.Sc. Liberal Program, the Field Studies Minor can serve as the breadth component.

Program descriptions for each of the field study semesters are provided below.

Note: The field study semesters are not degree programs. Credits may be counted toward McGill degrees with the permission of program advisers. Students who complete a field study semester may consult the Field Study Minor adviser about completing the Minor program as part of their McGill degree.

Africa Field Study Semester (15 credits)

The Africa Field Study Semester (AFSS) is run through McGill's Canadian Field Study in Africa Program (CFSIA).

The AFSS provides one term of integrated field study in East Africa, with emphasis on environmental conservation, culture change, and sustainable development. Students investigate challenges of sustaining biological diversity and social justice in African environments subject to cultural change, economic development, and environmental stress. Cultural and ecological variation is examined in highland, montane, rangeland, desert, riverine, salt- and fresh-water lake, coastal, and urban settings.

Africa Field Study Semester - Required Courses

6 credits

Students select one course titled "Research in Society and Development in Africa" and one course titled "Research in Ecology and Development in Africa" from the courses below.

ANTH 451	(3)	Research in Society and Development in Africa
BIOL 451	(3)	Research in Ecology and Development in Africa
GEOG 451	(3)	Research in Society and Development in Africa
NRSC 451	(3)	Research in Ecology and Development in Africa

Africa Field Study Semester - Complementary Courses

9 credits from:

* Note: Courses marked with an asterisk ("*") are offered on a rotational basis, at least 3 credits annually.

ANTH 411	(3)	Primate Studies and Conservation
ANTH 416	(3)	Environment/Development: Africa
BIOL 428	(3)	Biological Diversity in Africa
BIOL 429	(3)	East African Ecology
GEOG 404*	(3)	Environmental Management 2
GEOG 408	(3)	Geography of Development
GEOG 423	(3)	Dilemmas of Development
HIST 498	(3)	Independent Research
NRSC 405	(3)	Natural History of East Africa
NUTR 404	(3)	Nutrition Field Studies in East Africa
REDM 405	(3)	Natural History of East Africa
WILD 420*	(3)	Ornithology

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 form teams that 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 Winter of their participation in the field study semester.

First Winter semester complementary courses:

AGRI 550	(3)	Sustained Tropical Agriculture
GEOG 498	(3)	Humans in Tropical Environments

Second Winter semester complementary courses:

GEOG 404	(3)	Environmental Management 2
HIST 510	(3)	Environmental History of Latin America (Field)

McGill Arctic Field Study Semester

Required Courses (15 credits)

9 credits

ATOC 373	(3)	Arctic Climate and Climate Change
EPSC 373	(3)	Arctic Geology
GEOG 373	(3)	Arctic Geomorphology

and 6 credits from

ATOC 473	(6)	Arctic Field Research
EPSC 473	(6)	Arctic Field Research
GEOG 473	(6)	Arctic Field Research

Minor Field Studies - Complementary Course

In consultation with their departmental adviser and/or the Field Study Minor adviser, students who have completed one of the field study semesters described above may select a 3-credit complementary course to complete the requirements for the Minor and ask for it to be added to their academic records.

11.13.16 General Science

11.13.16.1 Location

Interdisciplinary Programs Adviser
 Ryan Bouma
 Telephone: 514-398-7330
 Email: ryan.bouma@mcgill.ca

11.13.16.2 About the General Science Minor

The Minor in General Science is only open to students in a B.Sc. Liberal program. Students interested in completing this Minor must consult with the Adviser for this program. See the program description in [section 11.13.16.3: Bachelor of Science \(B.Sc.\) - Minor General Science \(18 credits\)](#) for more information.

11.13.16.3 Bachelor of Science (B.Sc.) - Minor General Science (18 credits)

The Minor General Science is restricted to students in the B.Sc. Liberal program and may be used for the breadth component in this option. Students should consult their program adviser for their core science component and the Interdisciplinary Programs Adviser when selecting courses for this Minor.

Complementary Courses (18 credits)

Courses are to be chosen according to the following guidelines:

All courses must be offered by the Faculty of Science and must be at or above the 200 level*.

All courses must be different from the student's core science component courses.

Two options:

9 credits at the 300 level or above and at least 9 credits outside the student's core science component subject.

or

12 credits at the 300 level or above and at least 6 credits outside the student's core science component subject.

* Note: All Undergraduate research project courses with the 396 or 397 course number cannot be used toward the Minor General Science.

11.13.17 Geography (GEOG)

11.13.17.1 Location

Burnside Hall, Room 705
805 Sherbrooke Street West
Montreal QC H3A 0B9
Telephone: 514-398-4951
Website: mcgill.ca/geography

11.13.17.2 About Geography

The Department of Geography offers programs in both Arts and Science.

Refer to [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.18: Geography \(GEOG\)](#) for B.A. programs in Geography, including Urban Studies.

Refer to [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.18: Geography\(GEOG\)](#) for B.A. & Sc. Programs in Geography.

Geography also administers the B. A. & Sc. interfaculty programs in Sustainability, Science and Society in partnership with the Bieler School of Environment. These programs are described in [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.35: Sustainability, Science and Society](#).

Geography is a broad, holistic discipline; both a natural and a social science because it examines people and their environment and serves as a bridge between physical and cultural processes.

Human Geography is concerned especially with the political, economic, social, and cultural processes and resource practices that create spatial patterns and define particular places.

Physical Geography integrates disciplines such as climatology, geomorphology, geology, biology, hydrology, ecology, soil science, and even marine science.

Whether considering greenhouse gas emissions, the spread of disease, or threats to biodiversity, geographers are interested in where things happen, why, and with what consequences. Our graduates go on to careers in environmental consulting, social agencies, or non-governmental organizations. Skills in Geographic Information Science (GIS) are very marketable. Students are well prepared for graduate work in social sciences, urban planning, and environmental studies at leading schools.

11.13.17.3 Prerequisites

There are no departmental prerequisites for entrance to the B.Sc. Geography programs. Students who have completed college or pre-university geography courses fully equivalent to those in the first year of university may, with the adviser's approval, substitute other courses as part of their program.

11.13.17.4 Geography Faculty

Chair

N.T. Roulet

Graduate Program Director

TBA

Emeritus Professors

T.R. Moore; S. Olson; W.H. Pollard; G.W. Wenzel.

Professors

P.G. Brown, *cross appt. with Bieler School of Environment*; G.L. Chmura; O.T. Coomes; N.T. Roulet; S. Turner; J. Unruh.

Associate Professors

S. Breau; B. Forest; M. Kalacska; B. Lehner; G. MacDonald; K. Manaugh; T.C. Meredith; S. Moser; B. Robinson; R. Sengupta; R. Sieber.

Assistant Professors

M. Bendixen; G. McKenzie; M. Riva; C. von Sperber.

Adjunct Professors

G. Leblanc; N.A. Ross, *cross appt. with Natural Resource Sciences*.

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 272	(3)	Earth's Changing Surface

Complementary Courses (12 credits)

3 credits of Geography courses at the 200 level below.

GEOG 201	(3)	Introductory Geo-Information Science
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

9 credits from any Geography course at the 300 level or above.

11.13.17.6 Bachelor of Science (B.Sc.) - Minor GIS & Remote Sensing (18 credits)

The Minor GIS & Remote Sensing program provides B.Sc. students with the fundamentals of geospatial tools and technologies.

Required Course (6 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 314	(3)	Geospatial Analysis

Complementary Courses (12 credits)

3 credits selected from:

COMP 202	(3)	Foundations of Programming
GEOG 333	(3)	Introduction to Programming for Spatial Sciences

3 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
GEOG 308*	(3)	Remote Sensing for Earth Observation
GEOG 414*	(3)	Advanced Geospatial Analysis

6 credits selected from:

ATOC 309*	(3)	Weather Radars and Satellites
COMP 250	(3)	Introduction to Computer Science
ESYS 300	(3)	Investigating the Earth System
GEOG 202	(3)	Statistics and Spatial Analysis
GEOG 308*	(3)	Remote Sensing for Earth Observation

GEOG 384*	(3)	Principles of Geospatial Web
GEOG 414*	(3)	Advanced Geospatial Analysis
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 535	(3)	Remote Sensing and Interpretation

* may be taken in either list of complementary courses, but credits from one group may not be doubled-counted in the other.

11.13.17.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Geography (49 credits)

This is the Core Science Component in Geography for the B.Sc. Liberal. Required courses provide a foundation in Geography (which takes a holistic approach to environmental sciences, distinguished by its incorporation of human and climatic elements). By completing these courses, students will be armed with the prerequisites for 300-level courses in Geography. Our set of complementary courses provides students with necessary analytical skills and a broad background in physical geography. The 300-level courses in the complementary set prepare students for advanced study at the 400 and 500 level.

Required Courses (13 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 290	(1)	Local Geographical Excursion
GEOG 351	(3)	Quantitative Methods

Complementary Courses (36 credits)

3 credits of statistics*

* Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

9 credits of systematic physical geography

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 373	(3)	Arctic Geomorphology
GEOG 470	(3)	Wetlands

Students must take a total of 9 credits from the next 2 blocks; they will choose 6 credits from one block and 3 credits from the other, depending on their training focus.

6 or 9 credits of environmental analysis/techniques

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 384	(3)	Principles of Geospatial Web

GEOG 414 (3) Advanced Geospatial Analysis

3 or 6 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

3 credits of field courses:

GEOG 495 (3) Field Studies - Physical Geography
 GEOG 496 (3) Geographical Excursion
 GEOG 499 (3) Subarctic Field Studies

3 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any geography courses from the above complementary lists.

Geography Approved Course List - Major, Honours and Liberal Programs

GEOG 401 (3) Socio-Environmental Systems: Theory and Simulation
 GEOG 404 (3) Environmental Management 2
 GEOG 505 (3) Global Biogeochemistry
 GEOG 506 (3) Advanced Geographic Information Science
 GEOG 523 (3) Global Ecosystems and Climate
 GEOG 530 (3) Global Land and Water Resources
 GEOG 535 (3) Remote Sensing and Interpretation
 GEOG 536 (3) Geocryology
 GEOG 537 (3) Advanced Fluvial Geomorphology
 GEOG 550 (3) Historical Ecology Techniques
 GEOG 555 (3) Ecological Restoration

11.13.17.8 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 physical, chemical, and biological processes interact at various spatial and temporal scales to produce distinct environments over the planet, and study different suites of ecosystem services while investigating sustainability challenges for human communities that depend on them. The program includes core training in systematic areas of physical geography (geomorphology, hydrology, soil biogeochemistry, biogeography and climatology), field courses providing hands on exposure to environmental data collection, and courses in quantitative techniques and in GIS and Remote Sensing..

Required Courses (13 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 290	(1)	Local Geographical Excursion
GEOG 351	(3)	Quantitative Methods

Complementary Courses (45 credits)

3 credits of statistics:

Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

9 credits of systematic physical geography:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 373	(3)	Arctic Geomorphology
GEOG 470	(3)	Wetlands

3 credits of field courses:

(Field course availability is determined each year in February.)

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Students must take a total of 15 credits from the next 2 blocks; they will choose 9 credits from one block and 6 credits from the other block, depending on their training focus.

6 or 9 credits of environmental analysis/techniques

GEOG 308	(3)	Remote Sensing for Earth Observation
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GEOG 314	(3)	Geospatial Analysis
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414	(3)	Advanced Geospatial Analysis

6 or 9 credits in (Environment, Earth System and Sustainability sciences)

ENVR 200	(3)	The Global Environment
ENVR 201	(3)	Society, Environment and Sustainability
ENVR 202	(3)	The Evolving Earth
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 302	(3)	Environmental Management 1
GEOG 360	(3)	Analyzing Sustainability
GEOG 460	(3)	Research in Sustainability

9 credits on human-environment linkages

GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geography of the World Economy
GEOG 217	(3)	Cities in the Modern World
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
GEOG 310	(3)	Development and Livelihoods
GEOG 311	(3)	Economic Geography
GEOG 315	(3)	Urban Transportation Geography

6 credits of approved advanced courses in Geography, or elsewhere in the Faculty of Science that have been approved by the Program Adviser, including any geography courses from the above complementary lists.

Admission to 500-level courses in Geography requires the instructor's permission. It is not advisable to take more than one 500-level course in a term.

Geography Approved Course List - Major, Honours and Liberal Programs

GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 404	(3)	Environmental Management 2
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

11.13.17.9 Bachelor of Science (B.Sc.) - Honours Geography (66 credits)

The Honours program provides specialized systematic training in physical geography. In addition to the Faculty of Science 3.00 CGPA requirement, students in a Geography Honours program must maintain a program GPA of 3.30 and complete a 6-credit Honours thesis.

Required Courses (21 credits)

GEOG 201	(3)	Introductory Geo-Information Science
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 351	(3)	Quantitative Methods
GEOG 381	(3)	Geographic Thought and Practice
GEOG 491D1	(3)	Honours Research
GEOG 491D2	(3)	Honours Research

Complementary Courses (45 credits)

9 credits on human-environment linkages

GEOG 210	(3)	Global Places and Peoples
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

3 credits of statistics*, one of:

* Note: Credit given for statistics courses is subject to certain restrictions. Students in Science should consult the "Course Overlap" information in the "Course Requirements" section for the Faculty of Science.

BIOL 373	(3)	Biometry
GEOG 202	(3)	Statistics and Spatial Analysis
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research

9 credits of systematic physical geography:

GEOG 305	(3)	Soils and Environment
GEOG 321	(3)	Climatic Environments
GEOG 322	(3)	Environmental Hydrology
GEOG 372	(3)	Running Water Environments
GEOG 470	(3)	Wetlands

3 credits of field courses:

GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

Students must take a total of 15 credits from the next 2 blocks; they will choose 9 credits from one block and 6 credits from the other block, depending on their training focus

6 or 9 credits of environmental analysis/techniques

GEOG 308	(3)	Remote Sensing for Earth Observation
GEOG 314	(3)	Geospatial Analysis
GEOG 384	(3)	Principles of Geospatial Web
GEOG 414	(3)	Advanced Geospatial Analysis

6 or 9 credits (In Environment, Earth 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, Honours and Liberal Programs

GEOG 401	(3)	Socio-Environmental Systems: Theory and Simulation
GEOG 404	(3)	Environmental Management 2
GEOG 505	(3)	Global Biogeochemistry
GEOG 506	(3)	Advanced Geographic Information Science
GEOG 523	(3)	Global Ecosystems and Climate
GEOG 530	(3)	Global Land and Water Resources
GEOG 535	(3)	Remote Sensing and Interpretation
GEOG 536	(3)	Geocryology
GEOG 537	(3)	Advanced Fluvial Geomorphology
GEOG 550	(3)	Historical Ecology Techniques
GEOG 555	(3)	Ecological Restoration

11.13.17.10 Geography (GEOG) Related Programs and Study Semesters

The following programs, as well as several other opportunities for field study, are offered by the Faculty of Science. For further information, refer to mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare/field-study-semester or the *Science Internship & Field Studies Office*.

11.13.17.10.1 Africa Field Study Semester

The Africa program introduces students to East Africa specifically with a view to increasing their understanding of the goals, circumstances, challenges, and opportunities of people living in the areas visited. For more information, see mcgill.ca/africa.

11.13.17.102 Panama Field Study Semester

The Panama program is a joint venture between McGill University and the Smithsonian Tropical Research Institute (STRI) and addresses Latin America's social and tropical environmental issues. For more information, see mcgill.ca/pfss.

11.13.17.103 Arctic Field Study Semester

The primary mission of the McGill Arctic Field Studies is to train a future generation of northern specialists and leaders who are able to understand and address the rapidly changing polar environment in a scientifically and culturally responsible manner. For more information, see mcgill.ca/arctic.

11.13.17.104 Earth System Science Interdepartmental Major

This program is offered by the Department of Atmospheric and Oceanic Sciences; Earth and Planetary Sciences; and Geography.

Students in the Department of Geography interested in this program should contact:

William (Bill) Minarik
Telephone: 514-398-2596
Email: william.minarik@mcgill.ca

For more information, see [section 11.13.11: Earth System Science \(ESYS\)](#).

11.13.17.105 Sustainability, Science and Society – Bachelor of Arts and Science (B.A. & Sc.)

The Interfaculty Program in Sustainability, Science and Society as well as the Honours in Sustainability, Science and Society is open only to students in the B.A. & Sc. degree.

Students in the Department of Geography interested in this program should contact:

Michelle Maillet
Email: advisor.geog@mcgill.ca

For more information about these programs, see [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.35: Sustainability, Science and Society](#).

11.13.18 Immunology**11.13.18.1 Location**

McGill University Health Centre – Glen Site
1001 Decarie Boulevard, Bloc E, Office EM23248
Montreal QC H3G 1A4

or

McIntyre Medical Sciences Building, Room 1136
3655 Promenade Sir-William-Osler
Montreal QC H3G 1Y6

11.13.18.2 About Immunology

Three departments offer the **Honours** program in Immunology, combining elements of each:

- [section 11.13.4: Biochemistry \(BIOC\)](#)
- [section 11.13.23: Microbiology and Immunology \(MIMM\)](#)
- [section 11.13.31: Physiology \(PHGY\)](#)

The program is a demanding one which will prepare students for graduate work in immunology.

Students who do not maintain Honours standing must transfer their registration to a program in one of the three participating departments.

Apply to:

Dr. Monroe Cohen
Physiology
McIntyre Medical Sciences Building, Room 1136
3655 Promenade Sir-William-Osler, Montreal QC H3G 1Y6
Telephone: 514-398-4342
Email: monroe.cohen@mcgill.ca

or

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

11.13.18.3 Bachelor of Science (B.Sc.) - Honours Immunology (Interdepartmental) (75 credits)

IHI is a 75-credit program involving the Departments of Biochemistry; Microbiology and Immunology; and Physiology, and incorporates elements from each of these disciplines. Immunology is a key area of biomedical research and is critical to our understanding of the patho-physiology of many immune-mediated diseases. This program provides an excellent foundation for students interested in pursuing a career in biomedical research and/or medicine.

The program consists of 48 required credits of basic science courses, covering cell and molecular biology; microbiology and immunology; biochemistry; and physiology. There are also 27 complementary credits which allow for specialization in immunology and related disciplines. To graduate from IHI, students must have a minimum CGPA of 3.30 and pass five immunology courses (MIMM 214, MIMM 314, MIMM 414, PHGY 419D1 and D2, PHGY 513, and one of BIOC 503, MIMM 509, PHGY 531) with a minimum grade of B.

Required Courses (48 credits)

U1 Required Courses

20 credits selected as follows:

* Students select either BIOC 212 or BIOL 201.

** Students select either PHGY 209 or MIMM 211.

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology
BIOL 201*	(3)	Cell Biology and Metabolism
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
MIMM 211**	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
PHGY 209**	(3)	Mammalian Physiology 1

U2 Required Courses

13 credits from the following:

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
MIMM 314	(3)	Intermediate Immunology

U3 Required Courses

15 credits from the following:

MIMM 414	(3)	Advanced Immunology
PHGY 419D1	(4.5)	Immunology Research Project
PHGY 419D2	(4.5)	Immunology Research Project
PHGY 513	(3)	Translational Immunology

Complementary Courses (27 credits)

U1 Complementary Courses

6 credits chosen in the following manner.

3 credits selected from:

BIOL 373	(3)	Biometry
MATH 203	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

plus 3 credits selected from the following:

* Students take either PHGY 209 or MIMM 211.

** Students take either CHEM 203 or CHEM 204.

ANAT 214	(3)	Systemic Human Anatomy
ANAT 262	(3)	Introductory Molecular and Cell Biology
BIOL 202	(3)	Basic Genetics
BIOL 205	(3)	Functional Biology of Plants and Animals
BIOL 304	(3)	Evolution
CHEM 203**	(3)	Survey of Physical Chemistry
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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BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309*	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
CHEM 302	(3)	Introductory Organic Chemistry 3
MATH 222	(3)	Calculus 3
MATH 315*	(3)	Ordinary Differential Equations
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
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, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

U3 Complementary Courses

9 credits of U3 complementary courses chosen in the following manner:

3 credits selected from:

BIOC 503	(3)	Biochemistry of Immune Diseases
MIMM 509	(3)	Inflammatory Processes
PHGY 531	(3)	Topics in Applied Immunology

plus 6 credits selected from:

* Students take either ANAT 458 or BIOC 458, but not both.

ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 404	(3)	Biophysical Methods in Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOC 503	(3)	Biochemistry of Immune Diseases
BIOL 520	(3)	Gene Activity in Development
EXMD 504	(3)	Biology of Cancer
MIMM 413	(3)	Parasitology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2

PHGY 488	(3)	Stem Cell Biology
PHGY 531	(3)	Topics in Applied Immunology
PHGY 552	(3)	Cellular and Molecular Physiology

11.13.19 Interdisciplinary Life Sciences

11.13.19.1 Location

Interdisciplinary Programs Adviser
 Ryan Bouma
 Telephone: 514-398-7330
 Email: ryan.bouma@mcgill.ca

11.13.19.2 About the Interdisciplinary Life Sciences Minor

The Interdisciplinary Life Sciences Minor allows students to obtain exposure to Life Sciences and life science related areas. Students must consult with the Adviser to review course selection.



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.

11.13.19.3 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:

at least 6 credits must be at the 300 level or above.

Breadth requirement:

at least 9 credits must be taken from the Basic Life Sciences List,

at least 3 credits from the Health Social Sciences List,

at least 3 credits from the Empirical Science and Technology List.

The remaining 9 credits may be selected from any of the lists.

Basic Life Sciences

At least 9 credits from:

* Students take either ANAT 212 or BIOC 212, but not both.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 321	(3)	Circuitry of the Human Brain
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology

BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 370	(3)	Human Genetics Applied
CHEM 212	(4)	Introductory Organic Chemistry 1
CHEM 222	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
MIMM 211	(3)	Introductory Microbiology
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 387	(3)	The Business of Science
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
NSCI 201	(3)	Introduction to Neuroscience 2
NUTR 307	(3)	Metabolism and Human Nutrition
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology
PHAR 503	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PSYC 211	(3)	Introductory Behavioural Neuroscience

PSYC 311	(3)	Human Cognition and the Brain
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 342	(3)	Hormones and Behaviour

Health Social Science

At least 3 credits from:

ANTH 204	(3)	Anthropology of Meaning
ANTH 227	(3)	Medical Anthropology
ANTH 302	(3)	New Horizons in Medical Anthropology
ANTH 314	(3)	Psychological Anthropology 01
ECON 440	(3)	Health Economics
GEOG 221	(3)	Environment and Health
GEOG 303	(3)	Health Geography
HIST 249	(3)	Health and the Healer in Western History
HIST 335	(3)	Science and Medicine in Canada
HIST 350	(3)	Science and the Enlightenment
HIST 381	(3)	Colonial Africa
HIST 424	(3)	Gender, Sexuality and Medicine
HSEL 308	(3)	Issues in Women's Health
HSEL 309	(3)	Women's Reproductive Health
PHIL 237	(3)	Contemporary Moral Issues
PHIL 343	(3)	Biomedical Ethics
POLI 417	(3)	Health Care in Canada
PSYC 215	(3)	Social Psychology
PSYC 304	(3)	Child Development
PSYC 333	(3)	Personality and Social Psychology
PSYC 412	(3)	Child Development: 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 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

11.13.20 Kinesiology for Science Students

11.13.20.1 Location

Department of Kinesiology and Physical Education
 Currie Gymnasium
 475 Pine Avenue West, 2nd Floor
 Montreal QC H2W 1S4
 Telephone: 514-398-4184, ext. 0367
 Fax: 514-398-4186
 Email: studentaffairs.kpe@mcgill.ca
 Website: mcgill.ca/edu-kpe/programs/ug/bsckinminor
 Program Adviser: Nada Abu-Merhy; studentaffairs.kpe@mcgill.ca

11.13.20.2 About Kinesiology for Science Students

Students planning a career in the health sciences, whether as a health professional or a biomedical researcher, will find courses in Kinesiology to be of interest from both theoretical and applied perspectives. There is a focus on the benefits of physical activity for health and well-being, as well as appropriate prescription of exercise in the treatment of various diseases, injuries, and disabilities. Courses deal with both prevention and rehabilitation.

Students are not permitted to enrol in more than the 18 credits of EDKP courses required for the Minor in Kinesiology for Science Students.

11.13.20.3 Bachelor of Science (B.Sc.) - Minor Kinesiology (24 credits)

The Minor Kinesiology is designed to provide students in B.Sc. programs with basic but comprehensive knowledge of scientific bases of human physical activity and its relationship with health and well-being.

Students registered in the Minor Kinesiology may not take additional courses outside the Faculties of Arts and of Science.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

Required Courses (15 credits)

EDKP 206	(3)	Biomechanics of Human Movement
EDKP 261	(3)	Motor Development
EDKP 395	(3)	Exercise Physiology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2

Complementary Courses (9 credits)

9 credits, three of the following courses:

EDKP 330	(3)	Physical Activity and Public Health
EDKP 394	(3)	Historical Perspectives
EDKP 396	(3)	Adapted Physical Activity
EDKP 405	(3)	Sport in Society
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	Physical Activity and Ageing
EDKP 447	(3)	Motor Control
EDKP 448	(3)	Exercise and Health Psychology
EDKP 449	(3)	Neuromuscular and Inflammatory Pathophysiology
EDKP 485	(3)	Cardiopulmonary Exercise Pathophysiology
EDKP 495	(3)	Scientific Principles of Training
EDKP 498	(3)	Sport Psychology
EDKP 542	(3)	Environmental Exercise Physiology
EDKP 566	(3)	Advanced Biomechanics Theory

11.13.21 Management for Science Students

The Desautels Faculty of Management offers four minor programs for non-Management students open for application to students in the Faculty of Science. Please refer to [Desautels Faculty of Management > Undergraduate > Overview of Programs Offered by the Desautels Faculty of Management > section 9.8.7: Minors for Non-Management Students](#) for detailed information about program requirements and applying.

Also available to Science students is the Minor in Entrepreneurship for Science students; see [section 11.13.12: Entrepreneurship for Science Students](#). Students in this Minor are not permitted to take the Desautels Minors in Finance, Management, Marketing, or Operations Management (for Non-Management students).

11.13.21.1 Bachelor of Commerce (B.Com.) - Minor Finance (For Non-Management Students) (18 credits)

The Minor Finance consists of 18 credits of Management courses and is offered to non-Management students in the Faculties of Arts, Engineering, and Science.

The Minor has been designed to provide students with an understanding of the key concepts in corporate finance as well as investment banking.

Required Courses (9 credits)

FINE 342	(3)	Corporate Finance
FINE 441	(3)	Investment Management
MGCR 341*	(3)	Introduction to Finance

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

Complementary Courses (9 credits)

9 credits selected from any other undergraduate FINE course.

11.13.21.2 Bachelor of Commerce (B.Com.) - Minor Management (For Non-Management Students) (18 credits)

The Minor Management consists of 18 credits of Management courses and is currently offered to non-Management students in the following Faculties: Arts, Engineering, Science, Agricultural & Environmental Sciences, Music, Religious Studies, and Kinesiology.

This Minor is designed to provide non-management students with the opportunity to obtain basic knowledge in various aspects of management.

Complementary Courses (18 credits)

Selected from categories A, B, and C:

Category A

3 credits selected from:

MGCR 211	(3)	Introduction to Financial Accounting
MGCR 341*	(3)	Introduction to Finance

Category B

9 credits selected from:

MGCR 222	(3)	Introduction to Organizational Behaviour
MGCR 271**	(3)	Business Statistics
MGCR 293***	(3)	Managerial Economics
MGCR 331	(3)	Information Systems
MGCR 352	(3)	Principles of Marketing
MGCR 382	(3)	International Business
MGCR 472*	(3)	Operations Management

Category C

6 credits selected from:

3-6 credits from any 300- or 400-level Management courses for which prerequisites have been met.

0-3 credits may be from a specifically designated course by the student's home faculty.

* Prerequisite: MGCR 271, Business Statistics, or another equivalent Statistics course approved by the Program Adviser.

** 3 credits of statistics: Students who have taken an equivalent Statistics course in another faculty may not count those credits towards the Minor; an additional 3-credit complementary course must be chosen from the course list above.

*** Students who have taken an equivalent Economics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

11.13.21.3 Bachelor of Commerce (B.Com.) - Minor Marketing (For Non-Management Students) (18 credits)

The Minor Marketing consists of 18 credits of Management courses and is currently offered to non-Management students in the Faculties of Arts, Engineering, Science, and the Schulich School of Music.

This Minor is designed to provide students with an understanding of the fundamental concepts in marketing and a framework for applying marketing in a decision-making context. Students will be introduced to the basic concepts in marketing. The use of marketing theory and concepts for decision making will be covered. Marketing research methods for marketing decisions is introduced. Subsequently, students will be able to specialize by choosing from the list of complementary courses.

Required Courses (9 credits)

MGCR 352	(3)	Principles of Marketing
MRKT 354	(3)	Marketing Strategy
MRKT 451	(3)	Marketing Research

Complementary Courses (9 credits)

3 credits:

MGCR 271*	(3)	Business Statistics
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6 credits selected from:

MRKT 357	(3)	Marketing Planning 1
MRKT 365	(3)	New Products
MRKT 438	(3)	Brand Management
MRKT 452	(3)	Consumer Behaviour
MRKT 453	(3)	Advertising and Media
MRKT 455	(3)	Sales Management
MRKT 459	(3)	Retail Management
MRKT 483	(3)	International Marketing Management

or other appropriate 300- or 400-level MRKT courses with the approval of the Program Adviser.

* Students who have taken an equivalent Statistics course in another faculty may not count those credits toward the Minor; an additional 3-credit complementary course must be chosen from the course list above.

Note: Students should select their Statistics course only after consulting the "Course Overlap" section in the Faculty of Arts, the "Course Overlap" section in the Faculty of Science, and the "Course Overlap" section in the Desautels Faculty of Management to avoid overlapping Statistics courses.

11.13.21.4 Bachelor of Commerce (B.Com.) - Minor Operations Management (For Non-Management Students) (18 credits)

The Minor Operations Management consists of 18 credits of Management courses and is currently offered to non-Management students in the 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.

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: 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, machine learning, 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, extreme-value analysis, 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** programs in Mathematics and Statistics are less intense and more flexible, leaving 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, Statistics, or Data Science and its applications in another area. With satisfactory performance in an appropriate selection of courses, the **Major Statistics** 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. 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 mcgill.ca/science/undergraduate/internships-field



Note: Students entering a program listed below that has MATH 222 (Calculus 3) as a required course and who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222 (Calculus 3) from the program, but must replace it with 3 credits of mathematics complementary courses chosen after consultation with a Mathematics [adviser](#).

11.13.22.6 Mathematics and Statistics Faculty

Chair

Jacques C. Hurtubise

Graduate Program Director

Jérôme Vétois

Undergraduate Program Director

Johanna Neslehova

Emeritus Professors

William J. Anderson; Michael Barr; William G. Brown; Marta Bunge; Ian Connell; Stephen Drury; Kohur N. GowriSankaran; Paul Koosis; Michael Makkai; Sherwin Maslowe; Arak M. Mathai; Karl Peter Russell; Georg Schmidt; George P.H. Styan; Kwok Kuen Tam; John C. Taylor; David Wolfson; Jian-Jun Xu; Sanjo Zlobec.

Professors

Louigi Addario-Berry; Masoud Asgharian; Peter Bartello; Rustum Choksi; Henri Darmon; Christian Genest; Eyal Z. Goren; Pengfei Guan; Jacques C. Hurtubise; Dmitry Jakobson; Vojkan Jaksic; Niky Kamran; Johanna Neslehova; Adam Oberman; Charles Roth; David A. Stephens; Valentino Tosatti; John A. Toth; Adrian Vetta; Daniel T. Wise.

Associate Professors

Linan Chen; Tim Hoheisel; Antony R. Humphries; Abbas Khalili; Jean-Philippe Lessard; Jean-Christophe Nave; Sergey Norin; Mikael Pichot; Piotr Przytycki; Marcin Sabok; Russell Steele; Gantumur Tsogtgerel; Jérôme Vétois; Yi Yang.

Assistant Professors

Patrick Allen; Sarah Harrison; Jessica Lin; Michael Lipnowski; Courtney Paquette; Elliot Paquette; Brent Pym; Anush Tserunyan.

Associate Members

Simon Caron-Huot; Xiao-Wen Chang; Luc Devroye; Leon Glass; James A. Hanley; Hamed Hatami; Anmar Khadra; Xue Liu; Michael Mackey; Erica E.M. Moodie; Prakash Panangaden; Robert W. Platt; Alexandra Schmidt; Kaleem Siddiqi; Christina Wolfson.

Adjunct Professors

Andrew Granville; Alexis Hannart; Adrian Iovita; Dimitris Koukoulopoulos; Ming Mei; M. Ram Murty; Claude-Alain Pillet; Iosif Polterovich; Armen Shirikyan.

Senior Faculty Lecturers

Axel Hundemer; Armel Djivede Kelome.

Faculty Lecturers

Rosalie Bélanger-Rioux; José A. Correa; Jérôme Fortier; Jens Kreitewolf, *joint with Psychology*; Jeremy Macdonald; Tharshanna Nadarajah; Alia Sajjad; Sidney Trudeau.

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 MATH 236. In this case, the complementary credit requirement is reduced by 3 credits.

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations

Complementary Courses (15 credits)

15 credits selected from the required and complementary courses for majors and honours students in Mathematics, with MATH 323 strongly recommended; alternatively, up to 6 credits may be allowed for appropriate courses from other departments.

11.13.22.8 Bachelor of Science (B.Sc.) - Minor Statistics (27 credits)

The Minor may be taken in conjunction with any primary program in the Faculty of Science (other than those with a main component in Statistics). Students should declare their intention to follow the Minor Statistics at the beginning of the penultimate year and must obtain approval for the selection of courses to fulfil the requirements for the Minor from the Departmental Chief Adviser (or delegate).

All courses counted towards the Minor must be passed with a grade of C or better. 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 (15 credits)

* MATH 223 may be replaced by MATH 235 and MATH 236. In this case the complementary credit requirement is reduced by 3 credits.

MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 423	(3)	Applied Regression

Complementary Courses

9-12 credits selected from:

CHEM 593	(3)	Statistical Mechanics
COMP 451	(3)	Fundamentals of Machine Learning
COMP 551	(4)	Applied Machine Learning
GEOG 351	(3)	Quantitative Methods
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
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 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(4)	Design of Experiments

MATH 559	(4)	Bayesian Theory and Methods
MATH 562	(4)	Theory of Machine Learning
PHYS 362	(3)	Statistical Mechanics
PHYS 559	(3)	Advanced Statistical Mechanics
SOCI 504	(3)	Quantitative Methods 1

No more than 6 credits from the above list of complementary courses may be taken outside the Department of Mathematics and Statistics.

11.13.22.9 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Mathematics (45 credits)

Program Prerequisites

Students entering the Core Science Component in Mathematics are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 45 credits required for the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Selection of Courses

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following: MATH 317, MATH 318, MATH 327, MATH 328, MATH 335, MATH 340, MATH 417 and to complete the Computer Science Minor.

Students interested in probability and statistics are advised to take MATH 204, MATH 324, MATH 423, MATH 447, MATH 523, MATH 525.

Students interested in applied mathematics should take MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 417.

Students considering a career in secondary school teaching are advised to take MATH 318, MATH 328, MATH 338, MATH 339, MATH 346, MATH 348.

Students interested in careers in business, industry or government are advised to select courses from the following list:

MATH 317, MATH 319, MATH 327, MATH 329, MATH 417, MATH 423, MATH 430, MATH 447, MATH 523, MATH 525.

Required Courses (27 credits)

* Students may select either MATH 249 or MATH 316 but not both.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of complementary courses.

MATH 222**	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses (18 credits)

18 credits selected from the following list, with at least 6 credits selected from:

MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Mathematics

the remainder of the 18 credits to be selected from:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Partial Differential Equations
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 378	(3)	Nonlinear Optimization
MATH 410	(3)	Majors Project
MATH 417	(3)	Linear Optimization
MATH 423	(3)	Applied Regression
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 463	(0)	
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

11.132210 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Statistics (48 credits)

(45 or 48 credits)

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.

Required Courses (27 credits)

* Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of complementary courses.

** Students who have sufficient knowledge in a programming language do not need to take COMP 202, but must replace it by either COMP 250 or COMP 350.

***MATH 236 is an equivalent prerequisite to MATH 223 for required and complementary Computer Science courses listed below.

+ Students have to take MATH 204 prior to MATH 324.

COMP 202**	(3)	Foundations of Programming
MATH 204+	(3)	Principles of Statistics 2
MATH 222*	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236***	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 323	(3)	Probability
MATH 324+	(3)	Statistics
MATH 423	(3)	Applied Regression

Complementary Courses

18 or 21 credits

0-3 credits from:

MATH 203	(3)	Principles of Statistics 1
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At least 6 credits selected from:

* Students can take either MATH 317 or COMP 350, but not both.

COMP 250	(3)	Introduction to Computer Science
COMP 350*	(3)	Numerical Computing
MATH 243	(3)	Analysis 2
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316	(3)	Complex Variables
MATH 317*	(3)	Numerical Analysis
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Mathematics
MATH 350	(3)	Honours Discrete Mathematics
MATH 378	(3)	Nonlinear Optimization
MATH 417	(3)	Linear Optimization
MATH 430	(3)	Mathematical Finance
MATH 463	(0)	

At least 9 credits selected from:

*Students can take either MATH 410 or MATH 420, but not both.

COMP 551	(4)	Applied Machine Learning
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 410*	(3)	Majors Project
MATH 420*	(3)	Independent Study
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(4)	Design of Experiments
MATH 598	(4)	Topics in Probability and Statistics
WCOM 314	(3)	Communicating Science

11.132211 Bachelor of Science (B.Sc.) - Major Mathematics (54 credits)

Program Prerequisites

Students entering the Major program are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 54 credits of required courses.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Guidelines for Selection of Courses in the Major Program

The following informal guidelines should be discussed with the student's adviser. Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions.

Students interested in computer science are advised to choose courses from the following: MATH 317, MATH 318, MATH 327, MATH 335, MATH 340, MATH 417 and to complete the Computer Science Minor.

Students interested in probability and statistics are advised to take MATH 204, MATH 324, MATH 423, MATH 447, MATH 523, MATH 525.

Students interested in applied mathematics should take MATH 317, MATH 319, MATH 324, MATH 326, MATH 327, MATH 417.

Students considering a career in secondary school teaching are advised to take MATH 318, MATH 338, MATH 346, MATH 348.

Students interested in careers in business, industry or government are advised to select courses from the following list:

MATH 317, MATH 319, MATH 327, MATH 329, MATH 417, MATH 423, MATH 430, MATH 447, MATH 523, MATH 525.

Required Courses (27 credits)

Note: Students who have done well in MATH 235 and MATH 242 should consider entering the Honours stream by registering in MATH 251 and MATH 255 instead of MATH 236 and MATH 243.

* Students may select either MATH 249 or MATH 316 but not both.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with 3 credits of complementary courses.

MATH 222**	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 249*	(3)	Honours Complex Variables
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316*	(3)	Complex Variables
MATH 323	(3)	Probability

Complementary Courses (27 credits)

27 credits selected as follows:

6-12 credits selected from the following:

MATH 317	(3)	Numerical Analysis
MATH 324	(3)	Statistics
MATH 335	(3)	Computational Algebra
MATH 340	(3)	Discrete Mathematics

15-21 credits selected from the following: at least 6 credits must be at the 400 or 500 level.

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 318	(3)	Mathematical Logic
MATH 319	(3)	Partial Differential Equations
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 378	(3)	Nonlinear Optimization
MATH 410	(3)	Majors Project
MATH 417	(3)	Linear Optimization
MATH 423	(3)	Applied Regression
MATH 427	(3)	Statistical Quality Control
MATH 430	(3)	Mathematical Finance
MATH 447	(3)	Introduction to Stochastic Processes
MATH 463	(0)	

MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis

If necessary, 6 additional credits in Mathematics or related disciplines selected in consultation with the Adviser.

11.132212 Bachelor of Science (B.Sc.) - Major Statistics (54 credits)

The program provides training in statistics, with a solid mathematical core, and basic training in computing. 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. The program is a path to a wide variety of careers in industry, academia and government in the statistical sciences, and provides preparation for graduate work in statistics and data sciences.

Program Prerequisites

Students entering the Major in Statistics program 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 54 credits of program courses.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

In addition, a student that has not completed the equivalent of MATH 203 upon entering the program must consult an academic adviser. If a student is advised to take MATH 203, this course has to be taken as a complementary course in the first semester, increasing the total number of program credits from 54 to 57.

Students are strongly advised to complete all required courses and all Part I complementary courses by the end of U2, except for MATH 423 and MATH 523.

Students interested in the professional accreditation should consult an academic adviser.

Where appropriate, Honours courses may be substituted for equivalent Major courses. Students planning to pursue graduate studies are encouraged to make such substitutions, and to take MATH 556 and MATH 557 as complementary courses.

Required Courses (34 credits)

* Students must take MATH 204 before taking MATH 324.

** Students who have successfully completed a course equivalent to MATH 222 with a grade of C or better may omit MATH 222, but must replace it with MATH 314.

*** MATH 236 is an equivalent prerequisite to MATH 223 for required and complementary Computer Science courses listed below.

MATH 204*	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
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 323	(3)	Probability
MATH 324*	(3)	Statistics
MATH 423	(3)	Applied Regression
MATH 523	(4)	Generalized Linear Models

Complementary Courses (20-23 credits)

0-3 credits selected from:

MATH 203 (3) Principles of Statistics 1

Part I: 6 credits selected from:

* Students take either MATH 317 or COMP 350, but not both.

COMP 208	(3)	Computer Programming for Physical Sciences and Engineering
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 350*	(3)	Numerical Computing
MATH 314	(3)	Advanced Calculus
MATH 315	(3)	Ordinary Differential Equations
MATH 316	(3)	Complex Variables
MATH 317*	(3)	Numerical Analysis
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 327	(3)	Matrix Numerical Analysis
MATH 329	(3)	Theory of Interest
MATH 340	(3)	Discrete Mathematics
MATH 350	(3)	Honours Discrete Mathematics
MATH 378	(3)	Nonlinear Optimization
MATH 417	(3)	Linear Optimization
MATH 430	(3)	Mathematical Finance

Part II: 14 credits selected from:

* Students take either MATH 410 or MATH 420, but not both.

+ Students can take either COMP 451 or COMP 551, but not both.

COMP 451+	(3)	Fundamentals of Machine Learning
COMP 551+	(4)	Applied Machine Learning
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 410*	(3)	Majors Project
MATH 420*	(3)	Independent Study
MATH 427	(3)	Statistical Quality Control
MATH 447	(3)	Introduction to Stochastic Processes
MATH 463	(0)	
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 545	(4)	Introduction to Time Series Analysis
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(4)	Design of Experiments
MATH 598	(4)	Topics in Probability and Statistics
WCOM 314	(3)	Communicating Science

11.132213 Bachelor of Science (B.Sc.) - Major Mathematics and Computer Science (72 credits)
Program Prerequisites

Students entering the Joint Major in Mathematics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 72 credits of courses in the program specification.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (54 credits)

* Students who have sufficient knowledge in a programming language do not need to take COMP 202 but can replace it with an additional Computer Science complementary course.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 251	(3)	Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 360	(3)	Algorithm Design
MATH 222	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 236	(3)	Algebra 2
MATH 242	(3)	Analysis 1
MATH 315	(3)	Ordinary Differential Equations
MATH 317	(3)	Numerical Analysis
MATH 318	(3)	Mathematical Logic
MATH 323	(3)	Probability
MATH 340	(3)	Discrete Mathematics

Complementary Courses (18 credits)

9 credits from the set of courses recommended for a major

<https://www.mcgill.ca/study/faculties/science/undergraduate/programs/bachelor-science-bsc-major-mathematics> or honours

<https://www.mcgill.ca/study/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-mathematics> 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.

11.132214 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)	Applied Regression

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.

+ In order to receive credit for MATH 204, students must take it before MATH 324.

MATH 204+	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 327	(3)	Matrix Numerical Analysis
MATH 340*	(3)	Discrete Mathematics
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 558	()	Design of Experiments
MATH 578**	(4)	Numerical Analysis 1
MATH 598	(4)	Topics in Probability 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 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.

11.132215 Bachelor of Science (B.Sc.) - Honours Applied Mathematics (63 credits)

Applied Mathematics is a very broad field and students are encouraged to choose a coherent program of complementary courses. Most students specialize in "continuous" or "discrete" applied mathematics, but there are many sensible combinations of courses, and the following informal guidelines should be discussed with the student's adviser. Also, aside from seeking to develop a sound basis in Applied Mathematics, one of the objectives of the program is to kindle the students' interest in possible areas of application. To develop an appreciation of the diversity of Applied Mathematics, students are advised to develop some depth (e.g., by completing a minor) in a field related to Applied Mathematics such as Atmospheric and Oceanic Sciences, Biology, Biochemistry, Chemistry, Computer Science, Earth and Planetary Sciences, Economics, Engineering, 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 MATH 140/222 are considered equivalent.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

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.

Students who transfer to Honours in Applied 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

(39-42 credits)

* Students with limited programming experience should take COMP 202 or COMP 204 or COMP 208 or equivalent before COMP 250.

** Students select either MATH 251 or MATH 247, but not both.

*** Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

COMP 250*	(3)	Introduction to Computer Science
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	(3)	Honours Advanced Calculus
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (21 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254+	(3)	Honours Analysis 1

+ It is strongly recommended that students take MATH 254.

Advising Notes:

Students interested in continuous applied 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 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 517, MATH 547, MATH 550, MATH 552.

3 credits selected from:

MATH 249	(3)	Honours Complex Variables
MATH 466	(3)	Honours Complex Analysis

at least 3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

0-6 credits from the following courses for which no Honours equivalent exists.

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 430	(3)	Mathematical Finance
MATH 478	(3)	Computational Methods in Applied Mathematics

and the remainder of credits selected from:

COMP 362	(3)	Honours Algorithm Design
MATH 352	(1)	Problem Seminar
MATH 377	(3)	Honours Number Theory
MATH 398	(3)	Honours Euclidean Geometry
MATH 454++	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

++ Not open to students who have taken MATH 354.

All MATH 500-level courses.

Other courses with the permission of the Department.

11.132216 Bachelor of Science (B.Sc.) - Honours Mathematics (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending if they are exempt from MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses below or their equivalents.

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/151 and MATH 140/141/222 are considered equivalent.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/151 are not required to take MATH 222.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

Required Courses (48 credits)

45-48 credits

+ Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

* Not open to students who have taken MATH 354.

MATH 222+	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 251	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 358	(3)	Honours Advanced Calculus
MATH 454*	(3)	Honours Analysis 3
MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 470	(3)	Honours Research Project
MATH 475	(3)	Honours Partial Differential Equations

Complementary Courses (15 credits)

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254**	(3)	Honours Analysis 1

** It is strongly recommended that students take MATH 254.

0-6 credits from the following courses for which no Honours equivalent exists:

MATH 204	(3)	Principles of Statistics 2
MATH 208	(3)	Introduction to Statistical Computing
MATH 308	(3)	Fundamentals of Statistical Learning
MATH 329	(3)	Theory of Interest
MATH 338	(3)	History and Philosophy of Mathematics
MATH 378	(3)	Nonlinear Optimization
MATH 430	(3)	Mathematical Finance
MATH 463	(0)	

6-12 credits selected from:

COMP 250++	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 377	(3)	Honours Number Theory
MATH 387	(3)	Honours Numerical Analysis

MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 480	(3)	Honours Independent Study
MATH 488	(3)	Honours Set Theory

all MATH 500-level courses.

++ Students with limited programming experience should take COMP 202 or COMP 204 or COMP 208 or equivalent before COMP 250.

Students may select other courses with the permission of the Department.

11.132217 Bachelor of Science (B.Sc.) - Honours Probability and Statistics (63 credits)

The program provides training in probability and statistics, with a solid mathematical core, and basic training in computing. It prepares students for graduate school in probability, statistics, or data science. It also offers a path to a variety of careers in industry or government in the statistical sciences. With a suitable selection of complementary courses, students can focus on probability, mathematical statistics, applied statistics, actuarial science and finance, or data science. With satisfactory performance in an appropriate selection of courses, this program can lead to the professional accreditation A.Stat from the Statistical Society of Canada, which is regarded as the entry level requirement for a Statistician practicing in Canada.

Program Requirements (63 credits)

Students may complete this program with a minimum of 60 credits or a maximum of 63 credits depending on whether or not they are required to take MATH 222.

Program Prerequisites

The minimum requirement for entry into the Honours program is that the student has completed with high standing the following courses or their equivalents:

MATH 133	(3)	Linear Algebra and Geometry
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

In particular, MATH 150/MATH 151 and MATH 140/MATH 141/MATH 222 are considered equivalent.

Required Courses (28-31 credits)

* Students with limited programming experience should take COMP 202/COMP 204/COMP 208 or equivalent before COMP 250.

** Students select either MATH 251 or MATH 247, but not both.

*** Students who have successfully completed MATH 150/MATH 151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222.

Students who have not completed an equivalent of MATH 222 on entering the program must consult an academic adviser and take MATH 222 as a required course in the first semester, increasing the total number of program credits from 60 to 63. Students who have successfully completed MATH 150/MATH 151 are not required to take MATH 222.

Note: Students with limited knowledge of computer programming should take COMP 202/COMP 204/COMP 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 beforehand, in their first semester or their first year.

Students who transfer to Honours in Mathematics from other programs will have credits for previous courses assigned, as appropriate, by the Department.

To be awarded the Honours degree, the student must have, at time of graduation, a CGPA of at least 3.00 in the required and complementary Mathematics courses of the program, as well as an overall CGPA of at least 3.00.

COMP 250*	(3)	Introduction to Computer Science
MATH 208	(3)	Introduction to Statistical Computing
MATH 222***	(3)	Calculus 3
MATH 235	(3)	Algebra 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 251**	(3)	Honours Algebra 2

MATH 255	(3)	Honours Analysis 2
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 470	(3)	Honours Research Project
MATH 533	(4)	Regression and Analysis of Variance

Complementary Courses (32 credits)

Advising notes:

- Students wishing to pursue probability or mathematical statistics in graduate school are strongly advised to take MATH 587 and recommended to take honours mathematics courses as complementary courses in Part 11, in particular MATH 358, MATH 454 and MATH 455.

- Students wishing to pursue applied statistics and/or careers as statisticians in industry or government are advised to take MATH 523, MATH 524, MATH 547, and as many courses as possible from Part III of the list of Complementary Courses below. Students interested in obtaining the A-Stat accreditation from the Statistical Society of Canada should discuss their course selection with the academic advisor.

- Students with interest in actuarial science are advised to choose from the following as part of their Complementary Courses: MATH 329, MATH 430, MATH 524, MATH 540, MATH 541, MATH 545, MATH 547.

- Students with interest in data science and machine learning are advised to choose from the following as part of their Complementary Courses: COMP 206, COMP 251, COMP 424, COMP 551, MATH 350, MATH 462 and MATH 517.

Part 1: 3 credits selected from:

* It is strongly recommended that students take MATH 254.

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

Part II: at least 6 credits in mathematics and computer science selected from:

+ Students can select either MATH 248 or MATH 358, but not both.

++ Students may obtain credit for both MATH 455 and MATH 587.

COMP 206	(3)	Introduction to Software Systems
COMP 252	(3)	Honours Algorithms and Data Structures
MATH 248+	(3)	Honours Vector Calculus
MATH 325	(3)	Honours Ordinary Differential Equations
MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 358+	(3)	Honours Advanced Calculus
MATH 376	(3)	Honours Nonlinear Dynamics
MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis
MATH 398	(3)	Honours Euclidean Geometry
MATH 454	(3)	Honours Analysis 3
MATH 455++	(3)	Honours Analysis 4
MATH 458	(3)	Honours Differential Geometry
MATH 466	(3)	Honours Complex Analysis
MATH 475	(3)	Honours Partial Differential Equations
MATH 478	(3)	Computational Methods in Applied Mathematics
MATH 480	(3)	Honours Independent Study

and any 500-level course offered by the Department of Mathematics and Statistics not listed in Part III below.

Part III: at least 18 credits in probability and statistics selected as follows:

At least 8 credits selected from:

MATH 308	(3)	Fundamentals of Statistical Learning
MATH 524	(4)	Nonparametric Statistics
MATH 547	(4)	Stochastic Processes
MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 587	(4)	Advanced Probability Theory 1
MATH 589	(4)	Advanced Probability Theory 2

At least 7 credits selected from:

+++ Students must take MATH 204 before taking MATH 357 or MATH 533. Moreover, it is advisable to take MATH 203 before taking MATH 204.

MATH 204+++	(3)	Principles of Statistics 2
MATH 523	(4)	Generalized Linear Models
MATH 525	(4)	Sampling Theory and Applications
MATH 545	(4)	Introduction to Time Series Analysis
MATH 558	(4)	Design of Experiments

0-3 credits from the following courses for which no Honours equivalent exists:

MATH 329	(3)	Theory of Interest
MATH 427	(3)	Statistical Quality Control

The remaining credits selected from:

+++ Students may select either MATH 594 or MATH 598 but not both.

COMP 424	(3)	Artificial Intelligence
COMP 451	(3)	Fundamentals of Machine Learning
COMP 551	(4)	Applied Machine Learning
MATH 430	(3)	Mathematical Finance
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 540	(4)	Life Actuarial Mathematics
MATH 541	(4)	Nonlife Actuarial Models
MATH 594+++	(4)	Topics in Mathematics and Statistics
MATH 598+++	(4)	Topics in Probability and Statistics

11.132218 Bachelor of Science (B.Sc.) - Honours Statistics and Computer Science (79 credits)

This is a challenging program providing students with a solid training in both computer science and statistics suitable for entry into graduate school in either discipline.

Students may complete this program with a minimum of 76 credits or a maximum of 79 credits depending on whether or not they are exempt from taking COMP 202.

Program Prerequisites

Students entering the Joint Honours in Statistics and Computer Science are normally expected to have completed the courses below or their equivalents. Otherwise, they will be required to make up any deficiencies in these courses over and above the 76-79 credits of courses in the program.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses (46 credits)

* Students who have sufficient knowledge in a programming language are not required to take COMP 202.

** Students take either MATH 251 or MATH 247, but not both.

COMP 202*	(3)	Foundations of Programming
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
COMP 252	(3)	Honours Algorithms and Data Structures
COMP 273	(3)	Introduction to Computer Systems
COMP 302	(3)	Programming Languages and Paradigms
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design
MATH 235	(3)	Algebra 1
MATH 247**	(3)	Honours Applied Linear Algebra
MATH 248	(3)	Honours Vector Calculus
MATH 251**	(3)	Honours Algebra 2
MATH 255	(3)	Honours Analysis 2
MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 533	(4)	Regression and Analysis of Variance

Complementary Courses (33 credits)

18 credits in Mathematics selected as follows:

3 credits selected from:

MATH 242	(3)	Analysis 1
MATH 254*	(3)	Honours Analysis 1

* It is strongly recommended that students take MATH 254.

3 credits selected from:

MATH 387	(3)	Honours Numerical Analysis
MATH 397	(3)	Honours Matrix Numerical Analysis

At least 8 credits selected from:

MATH 523	(4)	Generalized Linear Models
MATH 524	(4)	Nonparametric Statistics
MATH 525	(4)	Sampling Theory and Applications

MATH 556	(4)	Mathematical Statistics 1
MATH 557	(4)	Mathematical Statistics 2
MATH 558	(4)	Design of Experiments

The remaining Mathematics credits selected from:

** MATH 578 and COMP 540 cannot both be taken for program credit.

MATH 350	(3)	Honours Discrete Mathematics
MATH 352	(1)	Problem Seminar
MATH 454	(3)	Honours Analysis 3
MATH 462	(3)	Honours Mathematics for Machine Learning
MATH 545	(4)	Introduction to Time Series Analysis
MATH 563	(0)	
MATH 578**	(4)	Numerical Analysis 1
MATH 587	(4)	Advanced Probability Theory 1
MATH 594	(4)	Topics in Mathematics and Statistics

15 credits in Computer Science selected as follows:

At least 6 credits selected from:

COMP 424	(3)	Artificial Intelligence
COMP 462	(3)	Computational Biology Methods
COMP 540**	(4)	Matrix Computations
COMP 547	(4)	Cryptography and Data Security
COMP 551	(4)	Applied Machine Learning
COMP 552	(4)	Combinatorial Optimization
COMP 564	(3)	Advanced Computational Biology Methods and Research
COMP 566	(3)	Discrete Optimization 1
COMP 567	(3)	Discrete Optimization 2

The remaining Computer Science credits are selected from COMP courses at the 300 level or above excluding COMP 396.

11.132219 Bachelor of Science (B.Sc.) - Honours Mathematics and Computer Science (78 credits)

Students may complete this program with a minimum of 72 credits or a maximum of 78 credits depending if they are exempt from COMP 202, COMP 204, COMP 208 and/or MATH 222.

Program Prerequisites

Students must consult an Honours adviser in both departments to ensure that 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/MATH151 and MATH 140/MATH 141/MATH 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/MATH 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/COMP 204/COMP 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	(3)	Honours Advanced Calculus

18 credits in Mathematics, at least 9 credits selected from:

+ Not open to students who have taken MATH 354.

MATH 356	(3)	Honours Probability
MATH 357	(3)	Honours Statistics
MATH 387	(3)	Honours Numerical Analysis
MATH 454+	(3)	Honours Analysis 3

MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3
MATH 457	(3)	Honours Algebra 4

The remaining credits should be selected from honours courses and 500-level courses given by the Department of Mathematics and Statistics.

12 credits in Computer Science, selected from Computer Science courses at the 300 level or above excluding COMP 364 and COMP 396. ECSE 508 may also be taken.

11.132220 Mathematics and Statistics (MATH) Related Programs

11.1322201 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 \(76 credits\)](#).

11.1322202 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 \(79 credits\)](#).

11.1322203 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

Duff Medical Building, Room 511
 3775 University Street
 Montreal QC H3A 2B4
 Telephone: 514-398-3915
 Fax: 514-398-7052
 Email: undergrad.microimm@mcgill.ca
 Website: 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, and response to environmental stimuli. Microbiologists are also concerned with controlling or harnessing microorganisms for the benefit of people, by isolating antibiotics or producing vaccines to protect against disease, and by developing and perfecting microorganisms for industrial uses.

Immunology is the study of the molecular and cellular basis of host resistance and immunity to external agents such as pathogenic microorganisms. Immunologists study the mechanisms by which the body recognizes foreign antigens, generates appropriate antibodies to an enormously diverse spectrum of antigens, and sequesters and kills invading microorganisms. Their discoveries lead to vaccination against disease; transfusions and organ transplants; and treatments for allergies; cancer; autoimmune diseases; and immune-deficiency diseases such as AIDS. Antibodies may soon be used in conjunction with antibiotics or chemical agents as specific “magic bullets” to diagnose disease and attack microbes and cancers.

The disciplines of microbiology and immunology are natural partners in research, and both fields use the modern methods of cell biology, molecular biology, and genetics to study basic life processes. The members of the **Department of Microbiology and Immunology** conduct research in:

- microbial physiology and genetics;
- microbial pathogenesis;
- molecular virology;
- cellular and molecular immunology;
- parasitology.

Students registered in the Department are therefore exposed to these related areas and receive an excellent background in basic biology and chemistry, as well as in the more applied areas of biotechnology and medicine.

Many opportunities exist for careers in basic or applied microbiology and immunology, medical microbiology, environmental microbiology, and biotechnology. They include positions in industry (pharmaceutical and biotechnology), hospitals, universities, and government (environment, public health, and energy). A degree in microbiology also provides an excellent basis for entering professional and postgraduate programs in medicine, dentistry, the veterinary sciences, research, and education.

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 mcgill.ca/microimm/undergraduate-programs/advising for dates.

11.13.23.3 Microbiology and Immunology Faculty

Chair

Samantha Gruenheid (*Interim*)

Emeritus Professors

N. Acheson, M. Baines, J.W. Coulton

Professors

J. Archambault, A. Berghuis, S. Gruenheid, G.J. Matlashewski, M. Olivier, C. Piccirillo, D. Sheppard, M. Stevenson

Associate Professors

D.J. Briedis, B. Cousineau, S. Fournier, J. Fritz, G.T. Marczyński, S. Sagan, A. Shapiro

Assistant Professors

J Chahal, I. King, C. Maurice

Associate Members

Epidemiology and Infectious Diseases: M. Behr, A. Dascal

Genetics: K. Dewar, E. Schurr

Immunology, Autoimmunity, Host Defense: J. Antel, M. Burnier, I. Colmegna, P. Gros, A. Kristof, J. Mandl, A. Orthwein, J. Rauch, J. Spicer, C. Tsoukas, S. Vidal

Immunology and Parasitology: B. Brenner, C.T. Costiniuk, M. Ndao, P. Rohrbach, B. Ward, J. Zhang

Microbiology: D. Cuong Vinh, M. Divangahi, C. Liang, D. Nguyen, M. Reed

Molecular Biology: N. Cermakian, A. Jardim, D. Langlais, A. Mouland, K. Pantopoulos, M. Tremblay, B. Turcotte, J. Xia

Virology: A. Gatignol, A.E. Koromilas, R. Lin, J. Teodoro

Adjunct Professors

E. Cohen, A. Descoteaux, J.M. Di Noia, A. Finzi, C. Krawczyk, G. Kukulj, P. Lau, S. Lesage, A. Petronela, K. Pike, W-K. Suh

Adjunct Member

F. Veyrier

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 301	(1)	Scientific Writing Skills in MIMM
MIMM 314	(3)	Intermediate Immunology
MIMM 323	(3)	Microbial Physiology
MIMM 324	(3)	Fundamental Virology
MIMM 384	(3)	Molecular Microbiology Laboratory
MIMM 385	(3)	Laboratory in Immunology

U3 Complementary Courses (6 credits)

6 credits selected from:

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

U1, U2 or U3 Complementary Courses (3 credits)

3 credits selected from:

* Students who have taken CHEM 212 or CHEM 222 in CEGEP must replace it with another complementary course.

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 365	(3)	Cellular Trafficking
ANAT 458	(3)	Membranes and Cellular Signaling
BIOC 311	(3)	Metabolic Biochemistry
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOT 505	(3)	Selected Topics in Biotechnology

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 222*	(4)	Introductory Organic Chemistry 2
CHEM 302	(3)	Introductory Organic Chemistry 3
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 390	(3)	SEA-PHAGES: Phage Discovery
MIMM 391	(3)	SEA-PHAGES: Genome Annotation
MIMM 413	(3)	Parasitology
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 384	(3)	Molecular Microbiology Laboratory
MIMM 385	(3)	Laboratory in Immunology

U3 Required Course (3 credits)

MIMM 413	(3)	Parasitology
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U3 Complementary Courses (6 credits)

6 credits selected from:

MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis

Complementary Courses (9 credits)

9 credits selected from:

* Students may select either ANAT 458 or BIOC 458, but not both.

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 365	(3)	Cellular Trafficking
ANAT 458*	(3)	Membranes and Cellular Signaling
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOT 505	(3)	Selected Topics in Biotechnology

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 302	(3)	Introductory Organic Chemistry 3
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 390	(3)	SEA-PHAGES: Phage Discovery
MIMM 391	(3)	SEA-PHAGES: Genome Annotation
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 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

11.13.23.6 Bachelor of Science (B.Sc.) - Honours Microbiology and Immunology (72 credits)

The Honours program is designed to offer, in addition to the substantial background given by the Major program, a significant research experience in a laboratory within the Department during the U3 year. Students are prepared for this independent research project by following an advanced laboratory course in U2. This program is intended to prepare students for graduate study in microbiology and immunology or related fields, but could also be chosen by students intending to enter medical research after medical school, or intending to enter the job market in a laboratory research environment.

Students intending to apply to Honours must follow the Major program in U1 and U2 and must obtain a CGPA of at least 3.50 at the end of their U2 year. For graduation in Honours, students must pass all required courses with a C or better, and achieve a sessional GPA of at least 3.30 in the U3 year.

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 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 Courses (3 credits)

3 credits selected from:

ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 262	(3)	Introductory Molecular and Cell Biology
ANAT 365	(3)	Cellular Trafficking
ANAT 458	(3)	Membranes and Cellular Signaling
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 404	(3)	Biophysical Methods in Biochemistry
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids

BIOC 458	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 309	(3)	Mathematical Models in Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 520	(3)	Gene Activity in Development
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1
CHEM 302	(3)	Introductory Organic Chemistry 3
COMP 204	(3)	Computer Programming for Life Sciences
COMP 206	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
EXMD 504	(3)	Biology of Cancer
MIMM 387	(3)	The Business of Science
MIMM 390	(3)	SEA-PHAGES: Phage Discovery
MIMM 391	(3)	SEA-PHAGES: Genome Annotation
MIMM 414	(3)	Advanced Immunology
MIMM 465	(3)	Bacterial Pathogenesis
MIMM 466	(3)	Viral Pathogenesis
MIMM 509	(3)	Inflammatory Processes
PATH 300	(3)	Human Disease
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PSYT 455	(3)	Neurochemistry

11.13.23.7 Microbiology and Immunology (MIMM) Related Programs

11.13.23.7.1 Interdepartmental Honours in Immunology

For more information, see [section 11.13.18: Immunology](#).

This program is offered by the departments of Biochemistry, Microbiology and Immunology, and Physiology.

Students interested in immunology may choose between this Honours program and the Honours program of the Department of Microbiology and Immunology.

Details of this program may also be obtained from:

Dr. Monroe Cohen
 Department of Physiology
 McIntyre Medical Sciences Building, Room 1136
 Telephone: 514-398-4342
 Email: monroe.cohen@mcgill.ca

OR

Dr. Ciro Piccirillo
 Department of Microbiology and Immunology
 McGill University Health Centre, Glen Site
 1001 Decarie Boulevard, Bloc E, Office EM23248

Telephone: 514-934-1934, ext. 76143
 Email: ciro.piccirillo@mcgill.ca

11.13.24 Music for Science Students

11.13.24.1 Location

Strathcona Music Building
 555 Sherbrooke Street West
 Montreal QC H3A 1E3
 Telephone: 514-398-4535
 Fax: 514-398-1540
 Website: mcgill.ca/music

11.13.24.2 About Music

The Schulich School of Music offers some programs that are open to students in the Faculty of Science. For more information, see [Schulich School of Music > Undergraduate > section 10.8: Browse Academic Units & Programs](#).

11.13.24.3 Music Faculty

Department of Music Research Chair

Gary Scavone

Department of Performance Chair

TBC

Advisers (B.A./B.Sc. Music programs)

Adelina Lameiras
 Telephone: 514-398-4541
 Email: adelina.lameiras@mcgill.ca

Diana (Dino) Dutz; B.Mus.(UWO), Grad.Dip.(C'dia)
 Telephone: 514-398-6337
 Email: 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
 3801 University Street, Room 140
 Montreal QC H3A 2B4

Website: mcgill.ca/neuro

11.13.25.2 About Neurology and Neurosurgery

There are no B.Sc. programs in Neurology and Neurosurgery, but the course NEUR 310 *Cellular Neurobiology*, which is part of the Minor in Neuroscience, is taught by the Faculty of Science.

Students wishing to obtain more information about Neurology and Neurosurgery can refer to the Faculty of Medicine and Health Sciences' : [Neurology and Neurosurgery](#) page.

11.13.26 Neuroscience

11.13.26.1 Location

Director of Neuroscience

Dr. Monroe Cohen

Department of Physiology

McIntyre Medical Sciences Building, Room 1150

3655 Promenade Sir-William-Osler

Montreal QC H3G 1Y6

Website: mcgill.ca/neuroscience

Interdisciplinary Programs Adviser

Ryan Bouma

Email: ryan.bouma@mcgill.ca

Telephone: 514-398-7330

11.13.26.2 About Neuroscience

Neuroscience is a multidisciplinary science devoted to understanding the nervous system. The brain is one of the most complex systems in the universe, and understanding how it functions is among the most challenging questions in science. Scientists are investigating the brain at many levels, from the molecules at synapses to complex forms of behaviour, and use methods of inquiry that are drawn from a number of disciplines, including molecular and cellular biology, physiology, behavioural sciences and cognitive 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.

11.13.26.3 Bachelor of Science (B.Sc.) - Minor Neuroscience (25 credits)

“Please note: this Minor is only available to students studying in the faculty of Science.”

This Minor is intended to provide students with a basic understanding of how the nervous system functions. The Minor is composed of 24-25 credits: 9 required and 15-16 complementary. For the 15-16 complementary credits, at least 12-13 must be from outside the student's home department and at least 6 of the 12-13 must be at the 400 or 500 level.

All course selections for the Minor must be approved by the program's adviser, Ryan Bouma (Email: ryan.bouma@mcgill.ca; Office: Dawson Hall, Rm 405). Note 1: A maximum of 6-7 credits can be counted for both the student's primary program and for the Minor in Neuroscience.

Required Courses (9 credits)

BIOL 200	(3)	Molecular Biology
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2

Complementary Courses (16 credits)

15-16 credits selected as follows:

- At least 12-13 credits must be from outside the student's home department.
- At least 6 of the 12-13 credits have to be at the 400 or 500 level.

0-10 credits from the following list of 200- and 300-level courses:

* Students may select ANAT 212 or BIOC 212 or BIOL 201.

** Students may select either BIOL 306 or PHGY 314.

Note 2: Since CHEM 212 is a prerequisite/corequisite for NSCI 200 and BIOL 200, students must take CHEM 212 if they have not yet done so.

ANAT 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 306**	(3)	Neural Basis of Behaviour
BIOL 320	(3)	Evolution of Brain and Behaviour
BIOL 389	(3)	Laboratory in Neurobiology
CHEM 212	(4)	Introductory Organic Chemistry 1
LING 390	(0)	
NEUR 310	(3)	Cellular Neurobiology
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314**	(3)	Integrative Neuroscience
PSYC 302	(3)	The Psychology of Pain
PSYC 311	(3)	Human Cognition and the Brain
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:

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 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain

PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
PSYT 505	(3)	Neurobiology of Schizophrenia

11.13.26.4 Bachelor of Science (B.Sc.) - Major Neuroscience (65 credits)

The Neuroscience Major is a focused program for students interested in how the nervous system functions. It is highly interdisciplinary and borrows principles and methodologies from a number of fields including: biology, biochemistry, physiology, psychology, mathematics, physics, computer science, and immunology. To ensure that they have the appropriate foundation, students are required to take 29 credits in lower-level courses from physiology, biology, mathematics, computer science, psychology, and ethics. The program offers students a concentrated selection of 15 credits to be taken from one of three areas of current scientific activities in the neurosciences: Cell/Molecular, Neurophysiology/Computation, or Cognition/Behaviour. In addition, students select 21 credits from a wide array of complementary courses to obtain more specialized training in areas of neuroscience that best suit their interests.

Enrolment in the Neuroscience Major is limited to a total of 50 students per year. U0 students seeking admission to this program should consult the neuroscience website for admissions requirements and should have completed the courses listed below or their equivalents.

Program Prerequisites

Students may complete this program with a minimum of 65 or a maximum of 67 credits.

Notes on admission to the Neuroscience Major program: Enrolment in the Neuroscience Major is limited to a total of 50 students per year. U0 students seeking admission to this program should consult the neuroscience website for admissions requirements and should have completed the courses listed below or equivalent.

* 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
MATH 151**	(4)	Calculus B
PHYS 101***	(4)	Introductory Physics - Mechanics
PHYS 102+++	(4)	Introductory Physics - Electromagnetism
PHYS 131***	(4)	Mechanics and Waves
PHYS 142+++	(4)	Electromagnetism and Optics

Core Required Courses (20 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2

NSCI 300	(3)	Neuroethics
NSCI 400D1	(.5)	Neuroscience Seminar
NSCI 400D2	(.5)	Neuroscience Seminar
PSYC 311	(3)	Human Cognition and the Brain

Complementary Courses (45-47 credits)

3 credits from:

BIOL 373	(3)	Biometry
MATH 324	(3)	Statistics
PSYC 305	(3)	Statistics for Experimental Design

3 credits from:

COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences

3 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

BIOL 309	(3)	Mathematical Models in Biology
MATH 222	(3)	Calculus 3

Streams

15 credits selected from one of the following streams:

A. Cell and Molecular Stream

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

3 credits as follows:

PHGY 311	(3)	Channels, Synapses and Hormones
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3 credits as follows:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

6 credits from:

Note: Students who have successfully completed an equivalent to MATH 222 at CEGEP or elsewhere, must replace these credits with a 3-credit elective course to satisfy the total credit requirement for the Neuroscience Major.

ANAT 321	(3)	Circuitry of the Human Brain
BIOL 309	(3)	Mathematical Models in Biology
COMP 206**	(3)	Introduction to Software Systems
COMP 250	(3)	Introduction to Computer Science
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra

C. Cognitive/Behavioural Stream

6 credits as follows:

PSYC 213	(3)	Cognition
PSYC 318	(3)	Behavioural Neuroscience 2

3 credits from:

BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

6 credits from:

ANAT 321	(3)	Circuitry of the Human Brain
PSYC 302	(3)	The Psychology of Pain
PSYC 317	(3)	Genes and Behaviour
PSYC 342	(3)	Hormones and Behaviour

Other Complementary Courses

21-23 credits chosen as follows:

3-16 credits from:

BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 389	(3)	Laboratory in Neurobiology
NSCI 410D1	(3)	Independent Research 1
NSCI 410D2	(3)	Independent Research 1

NSCI 420D1	(4.5)	Independent Research 2
NSCI 420D2	(4.5)	Independent Research 2

5-20 of the credits should be taken from the following lists. At least 15 of the 21-23 credits must be at the 400- or 500-level, which could include the above NSCI 410D1/NSCID2 or NSCI 420D1/NSCI 420D2 research courses:

200- and 300-level courses:

* Students take either BIOL 201 OR BIOC 212, but not both.

** Students take either COMP 206 or COMP 250, but not both.

ANAT 321	(3)	Circuitry of the Human Brain
BIOC 212*	(3)	Molecular Mechanisms of Cell Function
BIOC 311	(3)	Metabolic Biochemistry
BIOL 201*	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 320	(3)	Evolution of Brain and Behaviour
CHEM 222	(4)	Introductory Organic Chemistry 2
COMP 206**	(3)	Introduction to Software Systems
COMP 250**	(3)	Introduction to Computer Science
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MIMM 214	(3)	Introductory Immunology: Elements of Immunity
MIMM 314	(3)	Intermediate Immunology
NEUR 310	(3)	Cellular Neurobiology
PHAR 300	(3)	Drug Action
PHGY 210	(3)	Mammalian Physiology 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience
PSYC 213	(3)	Cognition
PSYC 302	(3)	The Psychology of Pain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 342	(3)	Hormones and Behaviour

400- and 500-level courses:

BIOL 414	(3)	Invertebrate Brain Circuits and Behaviours
BIOL 506	(3)	Neurobiology of Learning

BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BMDE 519	(3)	Biomedical Signals and Systems
COMP 546	(4)	Computational Perception
MATH 437	(3)	Mathematical Methods in Biology
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
NEUR 503	(3)	Computational Neuroscience
NEUR 507	(3)	Topics in Radionuclide Imaging
NEUR 550	(3)	Free Radical Biomedicine
PHAR 562	(3)	Neuropharmacology
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 513	(3)	Translational Immunology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.26.5 Bachelor of Science (B.Sc.) - Honours Neuroscience (74 credits)

The Honours program is intended for students who are interested in laboratory-based research and in acquiring a foundation in each of the 3 streams of the Neuroscience Major Program (cell and molecular; neurophysiology and computational; and cognition and behaviour). Students are admitted to the program after one year in a major.

Applicants must have taken a minimum of 27 graded credits in their U1 year, must have a CGPA of at least 3.5, and must have obtained minimum grades of B+ in both NSCI 200 and NSCI 201, as well as a minimum grade of C in BIOL 200, BIOC 212 or BIOL 201, and CHEM 212. Additional requirements for applying are provided on the Neuroscience website: (www.mcgill.ca/neuroscience). Meeting the minimum requirements does not guarantee admission to the Honours Neuroscience program.

To graduate from the program, students must have a CGPA of 3.30 and a minimum grade of B+ in NSCI 300, NSCI 400, and NSCI 430D1/D2.

"First Class Honours" is awarded to students who obtain a minimum cumulative grade point average of 3.70, a minimum program GPA of 3.30, and a minimum grade of B+ in NSCI 300, NSCI 400, and NSCI 430D1/D2.

Required Courses (38 credits)

Note: Students who have successfully completed an equivalent of CHEM 212 in CEGEP or elsewhere must replace these credits with a 3-credit elective course to satisfy the total credit requirement for Honours Neuroscience.

BIOC 311	(3)	Metabolic Biochemistry
BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Organic Chemistry 1
NSCI 200	(3)	Introduction to Neuroscience 1
NSCI 201	(3)	Introduction to Neuroscience 2
NSCI 300	(3)	Neuroethics
NSCI 400D1	(.5)	Neuroscience Seminar
NSCI 400D2	(.5)	Neuroscience Seminar
NSCI 430D1	(4.5)	Honours Research Project
NSCI 430D2	(4.5)	Honours Research Project
PHGY 311	(3)	Channels, Synapses and Hormones
PSYC 311	(3)	Human Cognition and the Brain
PSYC 318	(3)	Behavioural Neuroscience 2

Complementary Courses (36 credits)

3 credits from:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits from:

COMP 202	(3)	Foundations of Programming
COMP 204	(3)	Computer Programming for Life Sciences

3 credits from:

BIOL 373	(3)	Biometry
MATH 324	(3)	Statistics
PSYC 305	(3)	Statistics for Experimental Design

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 Honours Neuroscience.

BIOL 309	(3)	Mathematical Models in Biology
MATH 222	(3)	Calculus 3

3 credits from:

ANAT 321	(3)	Circuitry of the Human Brain
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BIOL 306	(3)	Neural Basis of Behaviour
PHGY 314	(3)	Integrative Neuroscience

21 credits should be taken from the following lists. At least 15 of the 21 credits must be taken at the 400- or 500-level.

200- and 300-level courses:

*Students may take either COMP 206 or COMP 250, but not both.

BIOL 202	(3)	Basic Genetics
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 301	(4)	Cell and Molecular Laboratory
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 307	(3)	Behavioural Ecology
BIOL 320	(3)	Evolution of Brain and Behaviour
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 319	(3)	Computational Models - Cognition
PSYC 342	(3)	Hormones and Behaviour

400- and 500-level courses:

BIOL 414	(3)	Invertebrate Brain Circuits and Behaviours
BIOL 506	(3)	Neurobiology of Learning
BIOL 530	(3)	Advances in Neuroethology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 580	(3)	Genetic Approaches to Neural Systems
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
BMDE 519	(3)	Biomedical Signals and Systems

COMP 546	(4)	Computational Perception
MATH 437	(3)	Mathematical Methods in Biology
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
NEUR 502	(3)	Basic and Clinical Aspects of Neuroimmunology
NEUR 503	(3)	Computational Neuroscience
NEUR 507	(3)	Topics in Radionuclide Imaging
NEUR 550	(3)	Free Radical Biomedicine
PHAR 562	(3)	Neuropharmacology
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 513	(3)	Translational Immunology
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 556	(3)	Topics in Systems Neuroscience
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.27 Nutrition (NUTR)

11.13.27.1 Location

School of Human Nutrition
 Macdonald-Stewart Building, Room MS2-045
 21,111 Lakeshore Road
 Sainte-Anne-de-Bellevue QC H9X 3V9
 Website: mcgill.ca/nutrition

11.13.27.2 About Nutrition

The School of Human Nutrition offers a **Minor in Human Nutrition** which can be taken by Science students; see [Faculty of Agricultural and Environmental Sciences > Undergraduate > Overview of Programs Offered > section 2.5.6: Bachelor of Science in Nutritional Sciences – B.Sc.\(Nutr.Sc.\) \(Overview\)](#).

NUTR 307 is considered as a course taught by the Faculty of Science.

11.13.28 Pathology (PATH)

11.13.28.1 Location

Department of Pathology
Duff Medical Building, B wing
3775 University Street
Montreal QC H3A 2B4
Telephone: 514-398-3045
Website: mcgill.ca/pathology

11.13.28.2 About Pathology

Pathology is a branch of medical science that involves the study and diagnosis of disease through the examination of surgically removed organs, tissues (biopsy samples), bodily fluids, and in some cases the whole body (autopsy). Aspects of a bodily specimen that may be considered include its gross anatomical make up, appearance of the cells using immunological markers, and chemical signatures in the cells. Pathology also includes the related scientific study of disease processes whereby the causes, mechanisms, and extent of disease are examined. Areas of study include cellular adaptation to injury, necrosis (death of living cells or tissues), inflammation, wound healing, and neoplasia (abnormal new growth of cells). Pathologists specialize in a wide range of diseases including cancer and the vast majority of cancer diagnoses are made by pathologists. The cellular pattern of tissue samples are observed under a microscope to help determine if a sample is cancerous or non-cancerous (benign). Pathologists also employ genetic studies and gene markers in the assessment of various diseases. Investigators in a pathology department may be utilizing information and experimental techniques originally developed in almost any area of modern biology and, in return, may contribute new knowledge of benefit to many other disciplines. Research on disease may target any of the organ systems, 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 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: 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, pharmacology is evidently 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;
- reproductive pharmacology;
- endocrine pharmacology;
- receptor pharmacology;
- cardiovascular pharmacology;
- toxicology;
- developmental pharmacology;
- autonomic pharmacology;
- biochemical pharmacology;

- therapeutics.

Training in pharmacology is conducted at both the undergraduate and graduate levels. Because of its breadth, students may be attracted to the subject from a variety of viewpoints; this includes those completing a bachelor's degree in any number of basic science disciplines, such as biology, zoology, chemistry, physics, biochemistry, microbiology, anatomy, and physiology. At the undergraduate level, seven lecture courses are offered. A course involving research projects in pharmacology is also available to provide students with the opportunity to get first-hand experience in a pharmacology research laboratory. These courses provide students with knowledge concerning the actions of drugs on living systems and insight into approaches to basic pharmacological research.

11.13.29.3 Pharmacology and Therapeutics (PHAR) Faculty

Chair

Koren K. Mann

Emeritus Professors

Radan Capek; Hans H. Zingg.

Professors

Daniel Bernard; Derek Bowie; Paul B.S. Clarke; A. Claudio Cuello; Barbara Hales; Terence Hébert; Dusica Maysinger; Anne McKinney; Gerhard Multhaup; Alfredo Ribeiro-da-Silva; Bernard Robaire; H. Uri Saragovi; Moshe Szyf; Jacquetta Trasler; Koren K. Mann.

Associate Professors

Jason Chaim Tanny; Lisa Maria Munter; Bastien Castagner; Jean-François Trempe.

Assistant Professors

Maureen McKeague; Ajitha Thanabalasuriar

Associate Members

Carolyn Baglole; Nathan Luedtke; Stephane Laporte; Stanley Nattel; Cristian O'Flaherty; Simon Rousseau; Edith A. Zorychta; Mark Basik; Michael Pollak.

Adjunct Professors

Bruce Allen; Sylvain Chemtob; Yves De Koninck; Greg FitzHarris; Jean-Sebastien Joyal; Thomas Sanderson; Fabrice Le Boeuf; Laura Stone.

Affiliate Members

Mathieu Boucher; Lionel Breton; Lorella Garofalo; John Gillard; Joseph Mancini; Karen Meerovitch; Christopher Wright.

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)

3 credits selected from the following:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 200	(3)	Molecular Biology

BIOL 201 (3) Cell Biology and Metabolism

3 credits selected from the following:

PHGY 209 (3) Mammalian Physiology 1

PHGY 210 (3) Mammalian Physiology 2

12 credits selected from the following:

PHAR 303 (3) Principles of Toxicology

PHAR 503* (3) Drug Discovery and Development 1

PHAR 504 (3) Drug Discovery and Development 2

PHAR 505* (3) Structural Pharmacology

PHAR 508 (3) Drug Discovery and Development 3

PHAR 510 (3) New Advances in Antimicrobial

PHAR 540 (3) Advances in Industrial Biotechnology

PHAR 562 (3) Neuropharmacology

PHAR 563 (3) Endocrine Pharmacology

PHAR 565 (3) Epigenetic Drugs and Targets

PHAR 599D1** (3) Pharmacology Research Project

PHAR 599D2** (3) Pharmacology Research Project

* Students may take either PHAR 503 or PHAR 505.

** PHAR 599D1 and PHAR 599D2 are taken together.

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.

Required Courses (40 credits)

U1

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

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)

3 credits selected from the following (recommended to be taken in Year 1):

ANAT 212	(3)	Molecular Mechanisms of Cell Function
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits selected from the following (usually in Year 2):

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3 credits selected from the following (usually in Year 2):

BIOL 373	(3)	Biometry
MATH 203*	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

9 credits selected from the following Pharmacology courses:

PHAR 503**	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 505**	(3)	Structural Pharmacology
PHAR 508	(3)	Drug Discovery and Development 3
PHAR 510	(3)	New Advances in Antimicrobial
PHAR 540	(3)	Advances in Industrial Biotechnology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHAR 565	(3)	Epigenetic Drugs and Targets

9 credits selected from the following courses:

Committee approval is required to substitute a science course not in the list below.

PHAR 599D1 and PHAR 599D2 are taken together.

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381+	(3)	Experimental Embryology
ANAT 458*	(3)	Membranes and Cellular Signaling

BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOC 470***	(3)	Lipids and Lipoproteins in Disease
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 370	(3)	Human Genetics Applied
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 462	(3)	Green Chemistry
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
CHEM 522	(3)	Stereochemistry
CHEM 552	(3)	Physical Organic Chemistry
COMP 204	(3)	Computer Programming for Life Sciences
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 504	(3)	Biology of Cancer
EXMD 509***	(3)	Gastrointestinal Physiology and Pathology
EXMD 511	(3)	Joint Venturing with Industry
HGEN 400***	(3)	Genetics in Medicine
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
MIMM 466++	(3)	Viral Pathogenesis
NEUR 310	(3)	Cellular Neurobiology
PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease
PHAR 503**	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 505**	(3)	Structural Pharmacology
PHAR 508	(3)	Drug Discovery and Development 3
PHAR 510	(3)	New Advances in Antimicrobial
PHAR 540	(3)	Advances in Industrial Biotechnology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHAR 565	(3)	Epigenetic Drugs and Targets
PHAR 599D1	(3)	Pharmacology Research Project
PHAR 599D2	(3)	Pharmacology Research Project
PHGY 311	(3)	Channels, Synapses and Hormones

PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 425+	(3)	Analyzing Physiological Systems
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PPHS 501	(3)	Population Health and Epidemiology
PSYC 302	(3)	The Psychology of Pain
PSYC 305***	(3)	Statistics for Experimental Design
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317***	(3)	Genes and Behaviour
PSYC 318***	(3)	Behavioural Neuroscience 2
PSYT 301	(3)	Issues in Drug Dependence
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
REDM 410	(3)	Writing Research Articles

Note:

* Students may take either ANAT 458 or BIOC 458.

** Students may take either PHAR 503 or PHAR 505.

*** Access to these courses is not guaranteed.

+ Open to students who have the prerequisites.

++ Access to these courses is not guaranteed. Open to students who have the prerequisites.

11.13.29.6 Bachelor of Science (B.Sc.) - Honours Pharmacology (76 credits)

The Honours program is designed as a preparation for graduate studies and research. In addition to the strong training provided by the Major program, it requires students to have direct research experience in a chosen area during their final year of study. Acceptance into the Honours program takes place in the Winter term of U2 and requires a CGPA of 3.50. Students who wish to enter the Honours program should follow the Major program; those who satisfactorily complete the first three terms with a CGPA of at least 3.50 and a mark of B+ or higher in core Pharmacology courses (PHAR 300, PHAR 301, and PHAR 303) are eligible for admission. Applications can be obtained from the office of the Department of Pharmacology in the McIntyre Medical Building or on the Departmental website.

Required Courses (46 credits)

U1

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

U2

BIOC 311	(3)	Metabolic Biochemistry
BIOL 301	(4)	Cell and Molecular Laboratory
PHAR 300	(3)	Drug Action
PHAR 301	(3)	Drugs and Disease
PHAR 303	(3)	Principles of Toxicology

U3

PHAR 598D1	(3)	Honours Pharmacology Research Project
PHAR 598D2	(3)	Honours Pharmacology Research Project

* 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 requirement for their degree.

Complementary Courses (30 credits)

3 credits selected from the following (highly recommended in Year 1):

ANAT 212	(3)	Molecular Mechanisms of Cell Function
BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits selected from the following (usually in Year 2):

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3 credits selected from the following (usually in Year 2):

BIOL 373	(3)	Biometry
MATH 203*	(3)	Principles of Statistics 1
PSYC 204	(3)	Introduction to Psychological Statistics

12 credits selected from the following Pharmacology courses:

PHAR 390	(3)	Laboratory in Pharmacology
PHAR 503**	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 505**	(3)	Structural Pharmacology
PHAR 508	(3)	Drug Discovery and Development 3
PHAR 510	(3)	New Advances in Antimicrobial
PHAR 540	(3)	Advances in Industrial Biotechnology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHAR 565	(3)	Epigenetic Drugs and Targets

9 credits selected for the following science courses:

Committee approval is required to substitute a science course not in the list below.

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381+	(3)	Experimental Embryology
ANAT 458*	(3)	Membranes and Cellular Signaling
BIEN 510	(3)	Engineered Nanomaterials for Biomedical Applications
BIOC 312	(3)	Biochemistry of Macromolecules
BIOC 450	(3)	Protein Structure and Function
BIOC 454	(3)	Nucleic Acids
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOC 470***	(3)	Lipids and Lipoproteins in Disease
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 306	(3)	Neural Basis of Behaviour
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 370	(3)	Human Genetics Applied
BIOT 505	(3)	Selected Topics in Biotechnology
CHEM 302	(3)	Introductory Organic Chemistry 3
CHEM 334	(3)	Advanced Materials
CHEM 462+	(3)	Green Chemistry
CHEM 502	(3)	Advanced Bio-Organic Chemistry
CHEM 503	(3)	Drug Discovery
CHEM 522	(3)	Stereochemistry
CHEM 552	(3)	Physical Organic Chemistry
COMP 204	(3)	Computer Programming for Life Sciences
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 504	(3)	Biology of Cancer
EXMD 509***	(3)	Gastrointestinal Physiology and Pathology
EXMD 511	(3)	Joint Venturing with Industry
HGEN 400***	(3)	Genetics in Medicine
MIMM 387	(3)	The Business of Science
MIMM 414	(3)	Advanced Immunology
MIMM 466++	(3)	Viral Pathogenesis
NEUR 310	(3)	Cellular Neurobiology
PARA 410	(3)	Environment and Infection
PATH 300	(3)	Human Disease
PHAR 390	(3)	Laboratory in Pharmacology
PHAR 503**	(3)	Drug Discovery and Development 1
PHAR 504	(3)	Drug Discovery and Development 2
PHAR 505**	(3)	Structural Pharmacology
PHAR 508	(3)	Drug Discovery and Development 3
PHAR 510	(3)	New Advances in Antimicrobial

PHAR 540	(3)	Advances in Industrial Biotechnology
PHAR 562	(3)	Neuropharmacology
PHAR 563	(3)	Endocrine Pharmacology
PHAR 565	(3)	Epigenetic Drugs and Targets
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
PHGY 425+	(3)	Analyzing Physiological Systems
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PPHS 501	(3)	Population Health and Epidemiology
PSYC 302	(3)	The Psychology of Pain
PSYC 305***	(3)	Statistics for Experimental Design
PSYC 311	(3)	Human Cognition and the Brain
PSYC 317***	(3)	Genes and Behaviour
PSYC 318***	(3)	Behavioural Neuroscience 2
PSYT 301	(3)	Issues in Drug Dependence
PSYT 455	(3)	Neurochemistry
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders
REDM 410	(3)	Writing Research Articles

Note:

* Students may take either ANAT 458 or BIOC 458.

**Students may take either PHAR 503 or PHAR 505.

*** Access to these courses is not guaranteed

+ Open to students who have the prerequisites

++ Access to these courses is not guaranteed. Open to students who have the prerequisites.

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
 Email: chairsec.physics@mcgill.ca
 Website: physics.mcgill.ca

11.13.30.2 About Physics

Physics is in many ways the parent of the other natural sciences and its discoveries and laws continually affect their development. Its range and scope extend 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, and in Physics and Computer Science—are even more specialized and demanding. They are intended for students who wish to develop a strong basis in both physics and the other discipline and are intended as preparation for graduate work and a professional or academic career. Although these programs have a bias for theoretical

work, they are broad enough and strong enough to prepare students for further study in either experimental physics or respectively mathematics, chemistry, or computer science.

The **Major** program, on the other hand, offers a broad training in classical and modern physics and yet leaves room for the student to take a meaningful sequence of courses in other areas. It is intended primarily for students who wish to pursue careers in fields for which physics provides a basis. However, this program also provides a preparation for graduate studies.

It is possible for students to transfer from the Major program to the Honours program after the first year of studies; see [section 11.13.30.9: Bachelor of Science \(B.Sc.\) - Major Physics \(63 credits\)](#).

There are also a number of other **major** programs, offered jointly with other departments:

- Atmospheric Sciences and Physics;
- Physics and Computer Science;
- Physics and Geophysics;
- Physiology and Physics;

and **minor** programs:

- Electrical Engineering, available only to students in the Physics Major;
- Minor in Physics.

The **Concentration** program allows students a greater focus in biological physics. There is also a core Physics component of the **Liberal Science** program, for students less interested in a specialized education.

Students from outside of the Province of Quebec will ordinarily register in the **Science Freshman** program. Physics offers two sequences of courses for this program, described below.

The list of pre- and corequisites is not absolute. In many cases, permission of the Department may be sought to have a specific prerequisite waived. The procedure is to ask the professor in charge of the course to review the request for such a waiver. The prerequisites of the 100-level courses are described in the following section entitled Science Freshman program.

Students interested in any of the Physics programs should contact the [Department](#) for an adviser.

A Science **Major Concentration** in physics is available to students pursuing the B.A. & Sc. degree. This Major Concentration is described in [Bachelor of Arts & Science > Undergraduate > Browse Academic Units & Programs > section 4.10.29: Physics \(PHYS\)](#).

11.13.30.3 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 Physics
- Major Program in Atmospheric Science and Physics
- Major Program in Physics and Computer Science
- Major Program in Physics and Geophysics
- Honours in Physics
- Honours Program in Physics and Chemistry
- Honours Program in Physics and Computer Science
- Honours Program in Physics and Mathematics

11.13.30.4 Science Freshman Program

Students entering McGill with a Quebec CEGEP profile in Science will normally begin their programs in Physics with courses at the 200 level.

Students without this profile should normally take courses PHYS 131 and PHYS 142 if they have previously taken physics at the high school level and should be taking differential calculus concurrently with PHYS 131 and integral calculus concurrently with PHYS 142. Those students who have not previously taken physics at the high school level and who intend to do programs in the Biological Sciences may instead take courses PHYS 101 and PHYS 102. All students are expected to have reasonable fluency in algebra, geometry, and trigonometry at the high school level. If this is not the case, then MATH 112 should be taken concurrently with PHYS 101. Those for whom this is not necessary are advised to take MATH 139 concurrently with PHYS 101.

11.13.30.5 Physics Faculty

Chair

S. Jeon

Director of Graduate Studies

A. Cumming

Emeritus Professors

J. Barrette; S. Das Gupta; N.B. de Takacsy; R. Harris; C.S. Lam; D.G. Stairs; J.O. Ström-Olsen; M. Sutton; M.J. Zuckermann.

Professor (Post-Retirement)

F. Buchinger.

Professors

R. Brandenberger; J. Cline; F. Corriveau; K. Dasgupta; M. Dobbs; C. Gale; G. Gervais; M. Grant; P. Grütter; H. Guo; D. Hanna; S. Jeon; V. Kaspi; S. Lovejoy; A. Maloney; N. Provatas; K. Ragan; D.H. Ryan; B. Vachon; A. Warburton; P. Wiseman.

Associate Professors

T. Brunner; H. Cynthia Chiang; L. Childress; B. Coish; D. Cooke; N. Cowan; A. Cumming; P. Francois; D. Haggard; M. Hilke; T. Pereg-Barnea; W. Reisner; S. Robertson; R. Rutledge; J. Childress; J. Sievers; B. Siwick; T. Webb.

Assistant Professors

K. Agarwal; S. Caron-Huot; E. Lee; A. Liu; K. Schutz.

Associate Members*Biochemistry* - K. Gehring.*Chemistry* - P. Kambhampati; D. Ronis.*Electrical and Computer Engineering* - T. Szkopek.*Kinesiology* - D. Rassier.*Medical Physics* - J. Kildea; J. Seuntjens.*Oncology* - S. Devic; S. Enger.*Physiology* - G. Bub; M. Chacron; A. Khadra.**Adjunct Professors**

O. Hernandez, B. Palmieri, M. Pearson, W. Witczak-Krempa

Curator (Rutherford Museum and McPherson Collection)

J. Barrette

11.13.30.6 Bachelor of Science (B.Sc.) - Minor Physics (18 credits)

The 18-credit Minor permits no overlap with any other programs. It contains no Mathematics courses, although many of the courses in it have Math pre- or corequisites. It will, therefore, be particularly appropriate to students in Mathematics, but it is also available to any Science student with the appropriate mathematical background.

Students in certain programs (e.g., the Major Chemistry) will find that there are courses in the Minor that are already part of their program, or that they may not take for credit because of a substantial overlap of material with a course or courses in their program. After consultation with an adviser, such students may complete the Minor by substituting any other physics course(s) from the Major or Honours Physics programs.

Required Course (3 credits)

PHYS 257 (3) Experimental Methods 1

Complementary Courses (15 credits)

15 credits to be selected as follows:

One of:

PHYS 230 (3) Dynamics of Simple Systems

PHYS 251 (3) Honours Classical Mechanics 1

One of:

PHYS 232 (3) Heat and Waves

PHYS 253 (3) Thermal Physics

One of:

PHYS 241 (3) Signal Processing

PHYS 258 (3) Experimental Methods 2

One of:

PHYS 224 (3) Physics of Music

PHYS 228 (3) Energy and the Environment

PHYS 260 (3) Modern Physics and Relativity

PHYS 320 (3) Introductory Astrophysics

PHYS 346 (3) Majors Quantum Physics

One of:

PHYS 340 (3) Majors Electricity and Magnetism

PHYS 350 (3) Honours Electricity and Magnetism

11.13.30.7 Bachelor of Science (B.Sc.) - Minor Electrical Engineering (24 credits)

This Minor program is currently under review. Students are encouraged to contact Department of Electrical & Computer Engineering for detailed information.

[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)

ECSE 200 (3) Electric Circuits 1

ECSE 210 (3) Electric Circuits 2

ECSE 303 (3) Signals and Systems 1

ECSE 330 (3) Introduction to Electronics

Complementary Courses (12 credits)

3 credits from the following and 9 credits of ECSE courses at the 200, 300, or 400 level subject to approval by the Department of Electrical and Computer Engineering.

ECSE 305 (3) Probability and Random Signals 1

ECSE 334 (3) Introduction to Microelectronics

11.13.30.8 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physics (45 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:

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 346	(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 (63 credits)

60-63 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:

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

(48-51 credits)

* Students who have successfully completed MATH 150/151 or an equivalent of MATH 222 on entering the program are not required to take MATH 222, reducing the total number of program credits from 63 to 60.

** Students coming into the program with sufficient knowledge of computer programming may replace COMP 208 with PHYS 512 or another 3-credit COMP course at the 200 level or above after consulting with an adviser.

COMP 208**	(3)	Computer Programming for Physical Sciences and Engineering
MATH 222*	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 314	(3)	Advanced Calculus
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 339	(3)	Measurements Laboratory in General Physics

PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetic Waves
PHYS 346	(3)	Majors Quantum Physics
PHYS 447	(3)	Applications of Quantum Mechanics
PHYS 449	(3)	Majors Research Project

Complementary Courses (12 credits)

3 credits from:

PHYS 329	(3)	Statistical Physics with Biophysical Applications
PHYS 333	(3)	Thermal and Statistical Physics

9 credits from:

PHYS 319	(3)	Introduction to Biophysics
PHYS 320	(3)	Introductory Astrophysics
PHYS 321	(3)	Data Science and Observational Astrophysics
PHYS 328	(3)	Electronics
PHYS 404	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 439	(3)	Majors Laboratory in Modern Physics
PHYS 479	(3)	Physics Research Project
PHYS 512	(3)	Computational Physics with Applications
PHYS 519	(3)	Advanced Biophysics
PHYS 521	(3)	Astrophysics

Note: It is possible for students to transfer from the Major to the Honours program after U1 year if they have passed all the 200-level required courses listed above and MATH 314 and MATH 315 with a C or better, and obtained a cumulative GPA of 3.5 or better in these courses. The written permission of an adviser is required for this change of program. The missing MATH 249 and PHYS 260 from the U1 Honours year should be taken in U2.

11.13.30.10 Bachelor of Science (B.Sc.) - Major Physics: Biological Physics (82 credits)

The B.Sc. Major Physics: Biological Physics program keeps a strong core of foundational physics and specializes through courses in biology, mathematics, physiology, computer science, and chemistry. Complementary courses provide background in molecular and cell biology, computer science, and organic chemistry, whereas introductory and advanced biophysics courses offered by the Physics Department as integrative courses. This program provides students with the skills necessary to continue on to graduate studies in biophysics/biological physics, or for research careers in hospital, industrial, or university settings.

Required Courses (63 credits)

Bio-Physical Science Core (27 credits)

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
CHEM 212*	(4)	Introductory Organic Chemistry 1
MATH 222*	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
PHYS 319	(3)	Introduction to Biophysics

PHYS 329 (3) Statistical Physics with Biophysical Applications

* Students who have taken the equivalent of CHEM 212 or MATH 222 can make up the credits with complementary 3 or 4 credits courses in consultation with the program adviser.

Biology and Mathematics (6 credits)

BIOL 202 (3) Basic Genetics
 MATH 314 (3) Advanced Calculus

Physics (30 credits)

PHYS 230 (3) Dynamics of Simple Systems
 PHYS 232 (3) Heat and Waves
 PHYS 241 (3) Signal Processing
 PHYS 257 (3) Experimental Methods 1
 PHYS 258 (3) Experimental Methods 2
 PHYS 340 (3) Majors Electricity and Magnetism
 PHYS 342 (3) Majors Electromagnetic Waves
 PHYS 346 (3) Majors Quantum Physics
 PHYS 449 (3) Majors Research Project
 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 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 346	(3)	Majors Quantum Physics
PHYS 432	(3)	Physics of Fluids

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)	Partial Differential Equations
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 404	(3)	Climate Physics
PHYS 449	(3)	Majors Research Project
PHYS 512	(3)	Computational Physics with Applications

11.1330.12 Bachelor of Science (B.Sc.) - Major Physics and Computer Science (66 credits)

The Major Physics and Computer Science is designed to give motivated students the opportunity to combine the two fields in a way that will distinguish them from the graduates of either field by itself. The two disciplines complement each other, with physics providing an analytic problem-solving outlook and basic understanding of nature, while computer science enhances the ability to make practical and marketable applications, in addition to having its own theoretical interest. Graduates of this program may be able to present themselves as being more immediately useful than a pure physics major, but with more breadth than just a programmer. They will be able to demonstrate their combined expertise in the Special Project course which is the centrepiece of the final year of the program.

Program Prerequisites

Students entering Physics programs from the Freshman program must have successfully completed the courses below or their equivalents. Quebec students must have completed the DEC with appropriate science and mathematics courses.

CHEM 110	(4)	General Chemistry 1
CHEM 120	(4)	General Chemistry 2
PHYS 131	(4)	Mechanics and Waves
PHYS 142	(4)	Electromagnetism and Optics

One of:

BIOL 111	(3)	Principles: Organismal Biology
BIOL 112	(3)	Cell and Molecular Biology

MATH 133 and either MATH 140/141 or MATH 150/151.

MATH 133	(3)	Linear Algebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2
MATH 150	(4)	Calculus A
MATH 151	(4)	Calculus B

U1 Required Courses (21 credits)

COMP 250	(3)	Introduction to Computer Science
MATH 222	(3)	Calculus 3
MATH 223	(3)	Linear Algebra
MATH 240	(3)	Discrete Structures
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2

U2 Required Courses (24 credits)

COMP 206	(3)	Introduction to Software Systems
COMP 251	(3)	Algorithms and Data Structures
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 346	(3)	Majors Quantum Physics
PHYS 489	(3)	Special Project

11.13.30.13 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.

To graduate with an Honours degree, a student must have, at time of graduation, a CGPA of at least 3.0 in the required and complementary courses of the program, as well as an overall CGPA of at least 3.0.

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/MATH141 or MATH 150/MATH 151 or MATH 222.

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
MATH 222	(3)	Calculus 3

Required Courses (27 credits)

U1

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

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

PHYS 352 (3) Honours Electromagnetic Waves

Complementary Courses (24 credits)

U3

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)	Physics Research Project

18 credits selected from the list below (students may substitute one or more courses with any 3-credit course approved by the Department of Physics):

PHYS 404	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 479	(3)	Physics Research Project
PHYS 512	(3)	Computational Physics with Applications
PHYS 514	(3)	General Relativity
PHYS 519	(3)	Advanced Biophysics
PHYS 521	(3)	Astrophysics
PHYS 534	(3)	Nanoscience and Nanotechnology
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

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 346	(3)	Majors Quantum Physics
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 459D1	(3)	Honours Research Thesis
PHYS 459D2	(3)	Honours Research Thesis
PHYS 519	(3)	Advanced Biophysics

Complementary Courses

(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
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

11.1330.15 Bachelor of Science (B.Sc.) - Honours Mathematics and Physics (81 credits)

This is a specialized and demanding program intended for students who wish to develop a strong basis in both Mathematics and Physics in preparation for graduate work and a professional or academic career. Although the program is optimized for theoretical physics, it is broad enough and strong enough to prepare students for further study in either experimental physics or mathematics.

The minimum requirement for entry into the program is completion with high standing of the usual CEGEP courses in physics and in mathematics, or the Physics Program Prerequisites as explained below. 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 81 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 the student improves the grade to a C or higher through a supplemental exam 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 both departments. The student will have two advisers, one from Mathematics and the other from Physics.

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 235	(3)	Algebra 1
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 255	(3)	Honours Analysis 2
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 362	(3)	Statistical Mechanics
PHYS 457	(3)	Honours Quantum Physics 2

U3 Required Courses (12 credits)

MATH 454	(3)	Honours Analysis 3
MATH 458	(3)	Honours Differential Geometry
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 359	(3)	Honours Laboratory in Modern Physics 1

Complementary Courses (18 credits)

U1 Complementary Course (3 credits)

MATH 247	(3)	Honours Applied Linear Algebra
MATH 251	(3)	Honours Algebra 2

U2 Complementary Courses (3 credits)

MATH 242	(3)	Analysis 1
MATH 254**	(3)	Honours Analysis 1

** It is strongly recommended that students take MATH 254.

U3 Complementary Courses (12 credits)

12 credits are selected as follows:

3 credits from:

MATH 455	(3)	Honours Analysis 4
MATH 456	(3)	Honours Algebra 3

6 credits selected from:

PHYS 404	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids
PHYS 459D1*	(3)	Honours Research Thesis
PHYS 459D2*	(3)	Honours Research Thesis
PHYS 479	(3)	Physics Research Project
PHYS 512	(3)	Computational Physics with Applications
PHYS 514	(3)	General Relativity
PHYS 519	(3)	Advanced Biophysics
PHYS 521	(3)	Astrophysics
PHYS 551	(3)	Quantum Theory
PHYS 557	(3)	Nuclear Physics
PHYS 558	(3)	Solid State Physics
PHYS 559	(3)	Advanced Statistical Mechanics
PHYS 562	(3)	Electromagnetic Theory
PHYS 567	(3)	Particle Physics

* Note: PHYS 459D1 and PHYS 459D2 are taken together.

3 credits in Honours Mathematics.

11.13.30.16 Bachelor of Science (B.Sc.) - Honours Physics and Chemistry (80 credits)

This is a specialized and demanding program intended primarily, although not exclusively, for students with a theoretical bias who are interested in working in fields of study at the crossroads of physical chemistry and physics. The program will prepare students for either theoretical or experimental graduate work in departments where there is an emphasis on such cross-disciplinary areas as condensed matter physics, chemical physics, or material science.

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 the student improves the grade to a C or above by taking a supplemental exam or retaking the course), may not register in this Honours program the following year, or graduate with the Honours degree, except with permission of both departments.

The student will have two advisers, one from Chemistry and the other from Physics.

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 (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:

Note: PHYS 459D1 and PHYS 459D2 are taken together.

CHEM 480D1	(1.5)	Undergraduate Research Project 2
CHEM 480D2	(1.5)	Undergraduate Research Project 2
CHEM 505	(3)	Computer Modeling of Molecules and Materials
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 404	(3)	Climate Physics
PHYS 434	(3)	Optics
PHYS 459D1	(3)	Honours Research Thesis
PHYS 459D2	(3)	Honours Research Thesis
PHYS 469	(3)	Honours Laboratory in Modern Physics 2
PHYS 479	(3)	Physics Research Project
PHYS 512	(3)	Computational Physics with Applications
PHYS 562	(3)	Electromagnetic Theory

11.1330.17 Bachelor of Science (B.Sc.) - Honours Physics and Computer Science (81 credits)

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
PHYS 258	(3)	Experimental Methods 2
PHYS 350	(3)	Honours Electricity and Magnetism
PHYS 352	(3)	Honours Electromagnetic Waves
PHYS 357	(3)	Honours Quantum Physics 1

PHYS 362	(3)	Statistical Mechanics
PHYS 457	(3)	Honours Quantum Physics 2

Complementary Courses (15 credits)

At least 6 of the 15 complementary credits must come from a course at the 400- or 500-level (excluding COMP 400 and PHYS 479), and of these at least 3 must be from a COMP course.

3 or 4 credits selected from:

COMP 400	(4)	Project in Computer Science
PHYS 479	(3)	Physics Research Project

6 or 7 credits selected from:

COMP 303	(3)	Software Design
COMP 310	(3)	Operating Systems
COMP 330	(3)	Theory of Computation
COMP 362	(3)	Honours Algorithm Design

Any COMP course at the 400- or 500-level (excluding COMP 400) (3 or 4 credits)

At least 4 credits selected from:

MATH 323	(3)	Probability
MATH 340	(3)	Discrete Mathematics
PHYS 351	(3)	Honours Classical Mechanics 2
PHYS 359	(3)	Honours Laboratory in Modern Physics 1
PHYS 404	(3)	Climate Physics
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics

Any number of PHYS courses at the 500 level (3 credits each)

Any number of COMP courses at the 400 or 500-level (excluding COMP 400) (3 or 4 credits each)

11.13.30.18 Physics (PHYS) Related Programs

11.13.30.181 Major in Atmospheric Science and Physics

See [section 11.13.3: Atmospheric and Oceanic Sciences \(ATOC\)](#). This program provides a firm basis for graduate work in atmospheric science and related fields as well as a sound preparation for those who wish to embark on a career directly after the B.Sc. Students should consult undergraduate advisers in both departments.

11.13.30.182 Major in Physiology and Physics

See [section 11.13.31: Physiology \(PHGY\)](#). This program provides a firm basis for graduate work in bio-physics and other interdisciplinary fields involving the physical and biological sciences.

11.13.31 Physiology (PHGY)

11.13.31.1 Location

McIntyre Medical Sciences Building, Room 1021
 3655 Promenade Sir-William-Osler
 Montreal QC H3G 1Y6
 Telephone: 514-398-4316
 Website: mcgill.ca/physiology

11.13.31.2 About Physiology

Physiology has its roots in many of the basic sciences including biology, chemistry, mathematics, and physics, and overlaps with other biomedical sciences such as anatomy, biochemistry, pathology, pharmacology, psychology, and biomedical engineering. Physiology is one of the prime contributors of basic scientific knowledge to the clinical medical sciences.

Members of the Department of Physiology at McGill are engaged in studies dealing with molecules, single cells, or entire systems in a variety of vertebrates, including humans. A wide range of interest and expertise is represented, including:

- cardiovascular;
- respiratory;
- gastrointestinal and renal physiology;
- the physiology of exercise;
- neurophysiology;
- endocrinology;
- immunology;
- biophysics;
- biomathematics.

Some faculty members have formal or informal links with the departments of mathematics, physics, electrical engineering, and chemistry, and with clinical departments (medicine, surgery, pediatrics, neurology, obstetrics, psychiatry, anesthesia), reflecting and reinforcing the close ties between physiology and other disciplines.

Graduates at the B.Sc. level have found rewarding **careers** in secondary school and CEGEP teaching, government service, and laboratory technical assistance such as in pharmaceutical houses, hospitals, and institutions of higher learning. Moreover, physiology provides an excellent background for medicine, dentistry or other postgraduate work, in such fields as physiology, experimental medicine, pharmacology, biochemistry, or physiological psychology.

The **programs** offered in Physiology differ in their orientation but they all have a common core of material covering:

- cardiovascular;
- respiratory;
- gastrointestinal and renal physiology;
- neurophysiology;
- endocrinology;
- immunology.

The specified U1 courses are identical for all programs except the Joint Major programs in Physiology and Physics, Physiology and Mathematics, and the Joint Honours program in Immunology, and thus afford students maximal flexibility before deciding on a particular program to follow in U2 and U3.

All **new students** to the Department, Freshman and CEGEP, must contact the Student Affairs Officer at 514-398-3689 for advising; further information is available on the [Physiology website](#).

Returning students are encouraged to consult with the Student Affairs Officer regularly throughout the year; in particular, at the beginning of their final year to ensure they have met all departmental requirements.



Please Note: Complementary courses are not electives.

The difference between complementary courses and required courses is that complementary courses are defined as offering an element of choice, however small that choice may be. Students may choose from the two (or more) courses specified within complementary course segments of a program description, but **ONLY** from those. For further information, refer to [University Regulations & Resources](#) > Undergraduate > Registration > [section 1.3.2: Course Information and Regulations](#).

11.13.31.3 Physiology Faculty

Chair

John White

Graduate Program Director

Alvin Shrier

Emeritus Professors

Thomas M.S. Chang, Leon Glass, Kresimir Krnjevic, Wayne S. Lapp, Mortimer Levy, Michael Mackey, George Mandl, Geoffrey Melvill Jones, Joseph Milic-Emili, Canio Polosa, Douglas G.D. Watt

Associate Professor (Post-Retirement)

Ann Wechsler

Professors

Maurice Chacron, Monroe W. Cohen, Ellis J. Cooper, Phil Gold, John Hanrahan, David Goltzman, Steve Lomber, Gergely Lukacs, Sheldon Magder, John Orłowski, Alvin Shrier, John White

Associate Professors

Claire Brown, Gil Bub, Erik Cook, Mladen Glavinovic, Michael Guevara, Suresh Krishna, Anmar Khadra, Reza Sharif-Naeini, Ursula Stochaj

Associate Professor (Part-time)

Nicole Bernard

Assistant Professors

Pouya Bashivan, Arjun Krishnaswamy, Judith Mandl, Anastasia Nijnik, Masha Prager-Khoutorsky, Daniela Quail, Melissa Vollrath

Associate Members

Anaesthesia: Steven Backman

Biomedical Engineering: Satya Prakash

Mathematics: Anthony Humphries

Medicine: Volker Blank, Mark Blostein, Andrey Cybulsky, Anne-Marie Lauzon, James Martin, Shafaat Rabbani, Simon Rousseau, Benjamin M. Smith, Mary Stevenson, Tomoko Takano, Elena Torban, Simon Wing

Microbiology and Immunology: Jörg Fritz

Neurology and Neurosurgery: Jack Antel, Daniel Guitton, Christopher Pack, Ed Ruthazer, Amir Shmuel, Jesper Sjöström, Jo Anne Stratton

Ophthalmology: Curtis Baker

Pharmacology and Therapeutics: Daniel Bernard, Derek Bowie, Terence Hebert

Psychiatry: Nicolas Cermakian

Research in Neuroscience: Charles Bourque

Adjunct Professors

M. Craig, K. Cullen, P. Haghighi, J. Martinez-Trujillo

Faculty Lecturer

Céline Aguer

11.13.31.4 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Physiology (50 credits)
Required Courses (32 credits)

* Students who have taken CHEM 212 and/or CHEM 222 in CEGEP are exempted and must replace these credits with 4 or 8 credits of elective course(s).

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
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2

PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology

Complementary Courses (15 credits)

15 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, one of:

PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience

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
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 459D1*	(3)	Physiology Seminar
PHGY 459D2*	(3)	Physiology Seminar
PHGY 461D1**	(4.5)	Experimental Physiology
PHGY 461D2**	(4.5)	Experimental Physiology
PHGY 488	(3)	Stem Cell Biology

PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 525	(3)	Cortical Plasticity
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, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience

Complementary Courses (28 credits)

12-13 credits selected as follows:

3 credits, one of:

BIOC 212	(3)	Molecular Mechanisms of Cell Function
BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 204	(3)	Computer Programming for Life Sciences
COMP 250	(3)	Introduction to Computer Science
PSYC 305	(3)	Statistics for Experimental Design

3 credits, one of:

BIOC 312	(3)	Biochemistry of Macromolecules
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

3-4 credits, one of:

ANAT 214	(3)	Systemic Human Anatomy
ANAT 261	(4)	Introduction to Dynamic Histology
ANAT 316	(3)	Clinical Human Visceral Anatomy

9 credits selected from the Upper-Level Physiology (ULP) course list as follows:

BIOL 532	(3)	Developmental Neurobiology Seminar
BMDE 505	(3)	Cell and Tissue Engineering
BMDE 519	(3)	Biomedical Signals and Systems
EXMD 502	(3)	Advanced Endocrinology 1
EXMD 503	(3)	Advanced Endocrinology 02
EXMD 506	(3)	Advanced Applied Cardiovascular Physiology
EXMD 507	(3)	Advanced Applied Respiratory Physiology
EXMD 508	(3)	Advanced Topics in Respiration
MIMM 414	(3)	Advanced Immunology
MIMM 509	(3)	Inflammatory Processes
PHGY 425	(3)	Analyzing Physiological Systems
PHGY 451	(3)	Advanced Neurophysiology
PHGY 459D1*	(3)	Physiology Seminar
PHGY 459D2*	(3)	Physiology Seminar
PHGY 461D1**	(4.5)	Experimental Physiology
PHGY 461D2**	(4.5)	Experimental Physiology
PHGY 488	(3)	Stem Cell Biology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology
PHGY 513	(3)	Translational Immunology

PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 525	(3)	Cortical Plasticity
PHGY 531	(3)	Topics in Applied Immunology
PHGY 550	(3)	Molecular Physiology of Bone
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHGY 560	(3)	Light Microscopy-Life Science
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

* the 6-credit course equals 3 credits of ULP and 6 credits of electives.

** the 9-credit course equals 3 credits of ULP and 6 credits of electives.

6 credits selected from the Upper-Level Science (ULS)

Note: For Chemistry, Neurology, and Neurosurgery: select from all courses 300 level and above and the ULS courses listed below.

For Biochemistry, Computer Science, Microbiology and Immunology, Mathematics, Physics, and Pathology: select from all courses 300 level and above.

For Anatomy, Biology, Experimental Medicine, Pharmacology, and Psychology: select from the ULS courses listed below:

ANAT 321	(3)	Circuitry of the Human Brain
ANAT 322	(3)	Neuroendocrinology
ANAT 365	(3)	Cellular Trafficking
ANAT 381	(3)	Experimental Embryology
ANAT 416	(3)	Development, Disease and Regeneration
ANAT 458*	(3)	Membranes and Cellular Signaling
ANAT 541	(3)	Cell and Molecular Biology of Aging
ANAT 542	(3)	Transmission Electron Microscopy of Biological Samples
ANAT 565	(3)	Diseases-Membrane Trafficking
BIOC 458*	(3)	Membranes and Cellular Signaling
BIOL 300	(3)	Molecular Biology of the Gene
BIOL 303	(3)	Developmental Biology
BIOL 309	(3)	Mathematical Models in Biology
BIOL 313	(3)	Eukaryotic Cell Biology
BIOL 314	(3)	Molecular Biology of Cancer
BIOL 324	(3)	Ecological Genetics
BIOL 370	(3)	Human Genetics Applied
BIOL 373	(3)	Biometry
BIOL 389	(3)	Laboratory in Neurobiology
BIOL 416	(3)	Genetics of Mammalian Development
BIOL 468	(6)	Independent Research Project 3
BIOL 518	(3)	Advanced Topics in Cell Biology
BIOL 520	(3)	Gene Activity in Development

BIOL 524	(3)	Topics in Molecular Biology
BIOL 532	(3)	Developmental Neurobiology Seminar
BIOL 544	(3)	Genetic Basis of Life Span
BIOL 546	(3)	Genetics of Model Systems
BIOL 551	(3)	Principles of Cellular Control
BIOL 575	(3)	Human Biochemical Genetics
BIOL 588	(3)	Advances in Molecular/Cellular Neurobiology
CHEM 214	(3)	Physical Chemistry/Biological Sciences 2
EXMD 401	(3)	Physiology and Biochemistry Endocrine Systems
EXMD 502	(3)	Advanced Endocrinology 1
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)
Required Courses (70 credits)
Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 247*	(3)	Honours Applied Linear Algebra
MATH 315**	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 325**	(3)	Honours Ordinary Differential Equations

* Students may take either MATH 223 or MATH 247.

** Students may take either MATH 315 or MATH 325.

Physiology and Mathematics Core

BIOL 309	(3)	Mathematical Models in Biology
BMDE 519	(3)	Biomedical Signals and Systems
MATH 242	(3)	Analysis 1
MATH 243	(3)	Analysis 2
MATH 248***	(3)	Honours Vector Calculus
MATH 314***	(3)	Advanced Calculus
MATH 317	(3)	Numerical Analysis
MATH 319	(3)	Partial Differential Equations
MATH 324	(3)	Statistics
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 437	(3)	Mathematical Methods in Biology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

*** Students may take either MATH 248 or MATH 314.

Complementary Courses (9 credits)

3 credits, one of:

COMP 204	(3)	Computer Programming for Life Sciences
COMP 250	(3)	Introduction to Computer Science

3 credits, one of:

PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience

3 credits, one of:

PHYS 413	(3)	Physical Basis of Physiology
PHYS 519	(3)	Advanced Biophysics

11.13.31.7 Bachelor of Science (B.Sc.) - Major Physiology and Physics (82 credits)

This program provides a firm foundation in physics, mathematics, and physiology. It is appropriate for students interested in applying methods of the physical sciences to problems in physiology and allied biological sciences.

Required Courses (76 credits)

Bio-Physical Sciences Core

BIOL 219	(4)	Introduction to Physical Molecular and Cell Biology
BIOL 395	(1)	Quantitative Biology Seminar
MATH 222	(3)	Calculus 3
MATH 223*	(3)	Linear Algebra
MATH 247*	(3)	Honours Applied Linear Algebra
MATH 315**	(3)	Ordinary Differential Equations
MATH 325**	(3)	Honours Ordinary Differential Equations
PHYS 329	(3)	Statistical Physics with Biophysical Applications

* Students may take either MATH 223 or MATH 247.

** Students may take either MATH 315 or MATH 325.

Physiology and Physics Core

BMDE 519	(3)	Biomedical Signals and Systems
MATH 248***	(3)	Honours Vector Calculus
MATH 314***	(3)	Advanced Calculus
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 437	(3)	Mathematical Methods in Biology
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing

PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 339	(3)	Measurements Laboratory in General Physics
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 346	(3)	Majors Quantum Physics

*** Students may take either MATH 248 or MATH 314.

Complementary Courses (6 credits)

3 credits, one of:

PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 314	(3)	Integrative Neuroscience

3 credits, one of:

PHYS 413	(3)	Physical Basis of Physiology
PHYS 519	(3)	Advanced Biophysics

11.13.31.8 Bachelor of Science (B.Sc.) - Honours Physiology (75 credits)

All admissions to the Honours program will be in U2, and the student must have a U1 GPA of 3.30, with no less than a B in PHGY 209 and PHGY 210. Admission to U3 requires a U2 CGPA of 3.20 with no less than a B in U2 Physiology courses. Decisions for admission to U3 will be heavily influenced by student standing in U2 courses.

The Department reserves the right to restrict the number of entering students in the Honours program. Students who do not maintain Honours standing may transfer their registration to the Major program in Physiology.

The deadline to apply to the Honours program is August 23, 2019. Application forms are available online at physiology.med@mcgill.ca or a hard copy can be picked up at McIntyre 1021. Please contact Sonia Viselli, Student Affairs Officer (sonia.viselli@mcgill.ca; 514-398-3689) for more information. An email will be sent to acknowledge receipt of your application.

Graduation: To graduate from the Honours Physiology program, the student will have a CGPA of 3.20 with a mark no less than a B in all Physiology courses.

If not previously taken, CHEM 212 Introductory Organic Chemistry 1 must be completed in addition to the 75 program credits.

Required Courses (60 credits)

ANAT 261	(4)	Introduction to Dynamic Histology
BIOC 311	(3)	Metabolic Biochemistry
BIOL 200	(3)	Molecular Biology
BIOL 202	(3)	Basic Genetics
BIOL 301	(4)	Cell and Molecular Laboratory
CHEM 222	(4)	Introductory Organic Chemistry 2
PHGY 209	(3)	Mammalian Physiology 1
PHGY 210	(3)	Mammalian Physiology 2
PHGY 212	(1)	Introductory Physiology Laboratory 1
PHGY 213	(1)	Introductory Physiology Laboratory 2
PHGY 311	(3)	Channels, Synapses and Hormones
PHGY 312	(3)	Respiratory, Renal, and Cardiovascular Physiology
PHGY 313	(3)	Blood, Gastrointestinal, and Immune Systems Physiology
PHGY 314	(3)	Integrative Neuroscience
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
BIOL 201	(3)	Cell Biology and Metabolism

3 credits, one of:

BIOL 309	(3)	Mathematical Models in Biology
BIOL 373	(3)	Biometry
COMP 204	(3)	Computer Programming for Life Sciences
COMP 250	(3)	Introduction to Computer Science
PSYC 305	(3)	Statistics for Experimental Design

3 credits, one of:

BIOC 312	(3)	Biochemistry of Macromolecules
CHEM 203	(3)	Survey of Physical Chemistry
CHEM 204	(3)	Physical Chemistry/Biological Sciences 1

6 credits selected from the Upper-Level Physiology (ULP) course list as follows:

BIOL 532	(3)	Developmental Neurobiology Seminar
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 488	(3)	Stem Cell Biology
PHGY 502	(3)	Exercise Physiology
PHGY 508	(3)	Advanced Renal Physiology

PHGY 513	(3)	Translational Immunology
PHGY 515	(3)	Blood-Brain Barrier in Health and Disease
PHGY 516	(3)	Physiology of Blood
PHGY 518	(3)	Artificial Cells
PHGY 520	(3)	Ion Channels
PHGY 524	(3)	Chronobiology
PHGY 525	(3)	Cortical Plasticity
PHGY 531	(3)	Topics in Applied Immunology
PHGY 550	(3)	Molecular Physiology of Bone
PHGY 552	(3)	Cellular and Molecular Physiology
PHGY 556	(3)	Topics in Systems Neuroscience
PHGY 560	(3)	Light Microscopy-Life Science
PSYC 470	(3)	Memory and Brain
PSYT 500	(3)	Advances: Neurobiology of Mental Disorders

11.13.31.9 Physiology (PHGY) Related Programs

11.13.31.9.1 Interdepartmental Honours in Immunology

For more information, see [section 11.13.18: Immunology](#). This program is offered by the Departments of Biochemistry, Microbiology and Immunology, and Physiology.

Students interested in the program should contact:

Dr. Monroe Cohen
 Physiology
 Telephone: 514-398-4342
 Email: monroe.cohen@mcgill.ca

OR

Dr. C. Piccirillo
 Microbiology and Immunology
 Telephone: 514-934-1934, ext. 76143
 Email: ciro.piccirillo@mcgill.ca

11.13.32 Psychiatry (PSYT)

11.13.32.1 Location

1033 Pine Avenue West, Room 104
 Montreal QC H3A 1A1
 Telephone: 514-398-4176
 Website: mcgill.ca/psychiatry/education/graduate-program

11.13.32.2 About Psychiatry

There are no B.Sc. programs in Psychiatry, but the PSYT courses listed below are administered by the Faculty of Science and are open to Arts and Science students and to graduate students, subject to the regulations and restrictions of their home faculty.

Courses

PSYT 199	FYS: Mental Illness and the Brain
PSYT 301	Issues in Drug Dependence
PSYT 400D1/PSYT 400D2	Research Project in Psychiatry
PSYT 455	Neurochemistry

Courses

PSYT 500	Advances: Neurobiology of Mental Disorders
PSYT 502	Brain Evolution and Psychiatry
PSYT 503	Mental Health Services and Policy
PSYT 504	Issues in Forensic Mental Health
PSYT 515	Advanced Studies in Addiction

11.13.33 Psychology (PSYC)

11.13.33.1 Location

2001 McGill College, Room 740
 Montreal QC H3A 1G1
 Telephone: 514-398-6100
 Fax: 514-398-4896
 Email: undergrad.psych@mcgill.ca
 Website: mcgill.ca/psychology

11.13.33.2 About Psychology

The Department of Psychology offers programs in both Arts and Science. All B.A. programs in Psychology can be found in [Faculty of Arts > Undergraduate > Browse Academic Units & Programs > section 3.10.33: Psychology \(PSYC\)](#).

Psychology is the scientific study of mind and behaviour. It is both a **social** and a **biological** science.

- As a **social science**, psychology examines the social nature of human beings and the influence that culture, group membership, and relationships have on individual personality, thought, and behaviour.
- As a **biological science**, psychology seeks to identify the neural basis of human behaviour, both directly, through the study of humans, and indirectly, through the study of other species.

The data of psychology is collected within the psychological laboratory by the use of experimental methods in the study of behaviour, and outside the laboratory by systematic observation of the behaviour of humans and animals. The aim is to formulate general principles of perception, learning, motivation, cognition, and social psychology that are relevant to different aspects of human life. Experimentation, laboratory techniques, observational procedures, measurement, and statistical methods are important tools of the psychologist.

Psychology has many interdisciplinary aspects. The study of psychological problems often involves knowledge drawn from other disciplines such as biology, physiology, linguistics, sociology, philosophy, and mathematics. For this reason, a student with varied interests can frequently find a place for these in psychology.

Psychology is a young science, so explanations of the processes underlying observed phenomena are often theoretical and speculative. The major objectives of psychological study are to reduce the discrepancy between theory and fact and to provide better answers about why humans think and behave as they do.

Undergraduate Studies

Although a number of undergraduate courses in psychology have applied implications, applied training is not the purpose of the undergraduate curriculum. Its purpose is to introduce the student to an understanding of the basic core of psychological knowledge, theory, and method, regardless of questions of practical application.

The B.Sc. or B.A. with a **Major** or **Honours** degree in psychology is not a professional qualification; it does not qualify the individual to carry on professional work in psychology. In the province of Quebec, the minimum requirement for membership in the Order of Psychologists, the professional association governing the work of psychologists in the province, is a doctoral degree. However, the Order also has a number of undergraduate course requirements that you should consult in planning your degree if you ultimately hope to apply for membership in the Order of Psychologists of Quebec. All students planning to practise in the province of Quebec will also be examined on their proficiency in French before being admitted to the professional association. Undergraduate courses in psychology may prove of considerable value to students planning careers in professional fields other than psychology. These include, but are not restricted to, medicine, education, social work, human communication sciences, and business and industry.

What distinguishes the Honours program from the Major program is the Honours program's emphasis on research methodology and practice, and its requirement that students maintain a high academic standard. Honours students also have an opportunity to work closely with faculty members in small groups.

Graduate Studies

Students who are interested in psychology as a career must pursue graduate studies. Persons who hold graduate degrees in Psychology, usually the Ph.D., may find employment in universities, research institutes, hospitals, community agencies, government departments, large corporations, or may act as self-employed consultants. At the graduate level, psychology has many specialized branches including social psychology, physiological psychology, experimental psychology, clinical psychology, child psychology, industrial psychology, community psychology, educational psychology, and others.

Requirements for admission to graduate studies in psychology vary from one university to another and from one country to another. Nonetheless, both the Honours and Major degrees in Psychology may qualify the student for admission to many graduate schools, provided that sufficiently high grades are obtained and, in some cases, that research experience has been obtained. During the U2 year, undergraduate students are strongly advised to verify the admission requirements of various graduate programs. This is to ensure that sufficient time is available for students to complete all necessary requirements for admission to their preferred graduate programs.

11.13.33.3 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 a Bachelor 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 selection.

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 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

B. Ditto

Graduate Program Director

B. Knauper

Clinical Program Director

M. Dirks

Undergraduate Program Director

J. Bartz

Emeritus Professors

F.E. Aboud; A.S. Bregman; D. Donderi; K.B.J. Franklin; F.H. Genesee; D.J. Levitin; A.A.J. Marley, *in memoriam*; D.S. Moskowitz; Y. Oshima-Takane; R.O. Pihl; J.O. Ramsay; T.R. Schultz; B. Sherwin; Y. Takane; D. Taylor, *in memoriam*; N. White; D.C. Zuroff.

Retired Professors

Rhonda Amsel; Andrew G. Baker; M.J. Mendelson.

Professors

M. Baldwin; I.M. Binik; M. Dirks; B. Ditto; H. Hwang; B. Knäuper; R. Koestner; J. Lydon; J. Mogil; K. Nader; D.J. Ostry; C. Palmer; M. Petrides; J. Ristic; M. Sullivan; D. Titone.

Associate Professors

J. Bartz; J. Britt; E. Hehman; L. Human; G. O'Driscoll; K. Onishi; S. Racine; S. Sheldon; A. Weinberg.

Assistant Professors

J. Axt; R. Bagot; C. Falk; J. Flake; O. Hardt; B. Johns; M. Miocevic; R. Otto; M. Roy; D. Vachon.

Lecturers

P. Carvajal; J. Kreitewolf.

Professionals

Ian F. Bradley; Judith LeGallais; James MacDougall; Jennifer Russell.

Associate Members

Anesthesia: T. Coderre

Douglas Mental Health University Institute Research Centre: S. King, N. Rajah, H. Steiger, M. Lepage

Educational Counselling Psychology: V Talwar

Jewish General Hospital: B Thombs

McGill Vision Research Centre: R. Hess, F.A.A. Kingdom, K. Mullen

Montreal Neurological Institute and Hospital: J. Armony, L.K. Fellows, D. Guitton, E. Ruthazer, W. Sossin, R. N. Spreng, V. Sziklas, R. Zatorre

Schulich School of Music: S. MacAdams

Psychiatry: D. Dunkley, F. Elgar, M. Leyton

Adjunct Professor

S. Harnad, L. Human.

11.13.33.6 Bachelor of Science (B.Sc.) - Minor Psychology (24 credits)

A minor program in Psychology is available to students registered in any B.Sc. program other than Psychology. This program is intended to complement a student's primary field of study by providing a focused introduction to specialized topics in psychology.

A separate minor concentration exists for students registered in a program in the Faculty of Arts.

The Minor program for Science students requires the completion of 24 credits, of which no more than 6 may overlap with the primary program. All courses in the Minor program must be passed with a minimum grade of C. A prerequisite to the program is PSYC 204 or equivalent.

Complementary Courses (24 credits)

at least 3, but no more than 6, credits selected from:

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

18-21 credits selected from Psychology courses at the 300 level or above.

11.13.33.7 Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Psychology (45 credits)

This Core Science Component Psychology requires the completion of 45 credits in Psychology, all of which need to be passed with a minimum grade of C. A prerequisite to the program is PSYC 100 or equivalent. Students completing a Liberal Program with a Core Science Component Psychology must also complete at least one breadth component in a second area.

Recommended Background

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

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 Quantitive Methods).

NSCI 201 (3) Introduction to Neuroscience 2
 PSYC 301 (3) Animal Learning and Theory
 PSYC 302 (3) The Psychology of Pain
 PSYC 310 (3) Intelligence
 PSYC 311 (3) Human Cognition and the Brain
 PSYC 315 (3) Computational Psychology
 PSYC 317 (3) Genes and Behaviour
 PSYC 318 (3) Behavioural Neuroscience 2
 PSYC 319 (3) Computational Models - Cognition
 PSYC 329 (3) Introduction to Auditory Cognition
 PSYC 340 (3) Psychology of Language
 PSYC 341 (3) The Psychology of Bilingualism
 PSYC 342 (3) Hormones and Behaviour
 PSYC 352 (3) Cognitive Psychology Laboratory
 PSYC 353 (3) Laboratory in Human Perception
 PSYC 403 (3) Modern Psychology in Historical Perspective
 PSYC 406 (3) Psychological Tests
 PSYC 410 (3) Special Topics in Neuropsychology
 PSYC 413 (3) Cognitive Development
 PSYC 415 (3) Electroencephalography (EEG) Laboratory in Psychology
 PSYC 427 (3) Sensorimotor Neuroscience
 PSYC 433 (3) Cognitive Science
 PSYC 443 (3) Affective Neuroscience
 PSYC 444 (3) Sleep Mechanisms and Behaviour
 PSYC 470 (3) Memory and Brain
 PSYC 502 (3) Psychoneuroendocrinology
 PSYC 506 (3) Cognitive Neuroscience of Attention

PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 562	(3)	Measurement of Psychological Processes
RELG 443	()	

List B

6 credits in Psychology from List B (Social, Health, and Developmental Psychology).

PSYC 304	(3)	Child Development
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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

15 credits in Psychology at the 300 level or above.

6 credits in Psychology at the 400 or 500 level.

11.13.33.8 Bachelor of Science (B.Sc.) - Major Psychology (54 credits)

Students majoring in Psychology must obtain a minimum grade of C in all 54 credits of the program. A grade lower than C may be made up by taking another equivalent course (if there is one), by successfully repeating the course, or by successfully writing a supplemental examination (if there is one).

Recommended Background

It is expected that most students who enter the Major program in Psychology will have taken introductory psychology, biology, and statistics at the collegial level. Recommended CEGEP courses include Psychology 350-101 or 350-102 or equivalent; Biology CEGEP objective 00UK, 00XU or equivalent; and Statistics (Mathematics) 201-307 or 201-337 or equivalent. Students must obtain a minimum grade of 75% in their CEGEP-level statistics course. In the first year those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below 75%, must take Psychology PSYC 204. Those who have not taken the recommended collegial-level biology must take BIOL 111 or BIOL 112, and those who have not taken Introductory Psychology in college must take PSYC 100.

U1 Required Courses (12 credits)

Note: PSYC 100 may be taken as a corequisite with these basic courses.

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

U1 or U2 Required Course (3 credits)

PSYC 305	(3)	Statistics for Experimental Design
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Complementary Courses (39 credits)

List A

6 credits in Psychology from List A (Behavioural Neuroscience, Cognition and Quantitative Methods).

NSCI 201	(3)	Introduction to Neuroscience 2
PSYC 301	(3)	Animal Learning and Theory
PSYC 302	(3)	The Psychology of Pain
PSYC 310	(3)	Intelligence
PSYC 311	(3)	Human Cognition and the Brain
PSYC 315	(3)	Computational Psychology
PSYC 317	(3)	Genes and Behaviour
PSYC 318	(3)	Behavioural Neuroscience 2
PSYC 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective

PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science
PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 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 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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

6 credits at the 300 level or above.

9 credits in Psychology at the 400 or 500 level.

12 credits at the 300 level or above in any of the following disciplines: Psychology (PSYC), Anatomy and Cell Biology (ANAT), Biology (BIOL), Biochemistry (BIOC), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PSYT).

11.13.33.9 Bachelor of Science (B.Sc.) - Honours Psychology (60 credits)

Honours in Psychology prepares students for graduate study, and so emphasizes practise in the research techniques which are used in graduate school and professionally later on. Students are normally accepted into Honours at the beginning of their U2 year, and the two-year sequence of Honours courses continues through U3.

Recommended Background

It is expected that most students who enter the Honours program in Psychology will have taken introductory psychology, biology, and statistics at the collegial level. Recommended CEGEP courses include Psychology 350-101 or 350-102 or equivalent; Biology CEGEP objective 00UK, 00XU or equivalent; and Statistics (Mathematics) 201-307 or 201-337 or equivalent. Students must obtain a minimum grade of 75% in their CEGEP-level statistics course. In the first year, those students who have not taken the recommended collegial-level statistics course, or those who have obtained a grade below 75%, must take Psychology PSYC 204. Those who have not taken the recommended collegial-level biology must take BIOL 111 or BIOL 112, and those who have not taken Introductory Psychology in CEGEP must take PSYC 100.

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

Admission to Honours is selective. Students with a cumulative grade point average (CGPA) of 3.00 or better are eligible to apply; however, since enrolment is limited, the usual CGPA for admission to this program is 3.50. Students must complete 27 graded credits in their U1 academic year to be eligible to apply to the Honours program.

Students must complete the following courses in their U1 year to be eligible to apply to the Honours program: PSYC 204, PSYC 211, PSYC 212, PSYC 213, and PSYC 215. Students are advised to complete PSYC 305 in their U1 year. Once in the Honours program, the student must obtain a GPA of 3.00 in the U2 year in order to continue in the program for U3. Honours students are encouraged to take at least 27 graded credits per academic year. This is also usually the minimum number of credits required to be eligible for fellowships and awards.

U1 Required Courses (12 credits)

Note: PSYC 100 may be taken as a corequisite with these basic courses.

PSYC 211	(3)	Introductory Behavioural Neuroscience
PSYC 212	(3)	Perception
PSYC 213	(3)	Cognition
PSYC 215	(3)	Social Psychology

U1 or U2 Required Course (3 credits)

PSYC 305	(3)	Statistics for Experimental Design
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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 319	(3)	Computational Models - Cognition
PSYC 329	(3)	Introduction to Auditory Cognition
PSYC 340	(3)	Psychology of Language
PSYC 341	(3)	The Psychology of Bilingualism
PSYC 342	(3)	Hormones and Behaviour
PSYC 352	(3)	Cognitive Psychology Laboratory
PSYC 353	(3)	Laboratory in Human Perception
PSYC 403	(3)	Modern Psychology in Historical Perspective
PSYC 406	(3)	Psychological Tests
PSYC 410	(3)	Special Topics in Neuropsychology
PSYC 413	(3)	Cognitive Development
PSYC 415	(3)	Electroencephalography (EEG) Laboratory in Psychology
PSYC 427	(3)	Sensorimotor Neuroscience
PSYC 433	(3)	Cognitive Science

PSYC 443	(3)	Affective Neuroscience
PSYC 444	(3)	Sleep Mechanisms and Behaviour
PSYC 470	(3)	Memory and Brain
PSYC 502	(3)	Psychoneuroendocrinology
PSYC 506	(3)	Cognitive Neuroscience of Attention
PSYC 513	(3)	Human Decision-Making
PSYC 514	(3)	Neurobiology of Memory
PSYC 522	(3)	Neurochemistry and Behaviour
PSYC 526	(3)	Advances in Visual Perception
PSYC 529	(3)	Music Cognition
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 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 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)	Child Development: 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 535	(3)	Advanced Topics in Social Psychology
PSYC 539	(3)	Advanced Topics in Social Psychology 2

9 credits at the 300 level or above selected from:

Anatomy and Cell Biology (ANAT), Biochemistry (BIOC), Biology (BIOL), Chemistry (CHEM), Computer Science (COMP), Mathematics (MATH), Physiology (PHGY), Psychiatry (PYST), Psychology (PSYC).

11.13.34 Redpath Museum (REDM)

11.13.34.1 Location

Redpath Museum
859 Sherbrooke Street West
Montreal QC H3A 0C4
Telephone: 514-398-4086 ext. 3188
Fax: 514-398-3185
Email: redpath.museum@mcgill.ca
Website: mcgill.ca/redpath

11.13.34.2 About the Redpath Museum

The Redpath Museum fosters the study of the history and diversity of the natural world. Its mandate includes biological, geological, and cultural diversity, and science education. It conducts academic teaching and research activities and also provides academic services to other units. The Redpath Museum offers a B.Sc. **Minor** program in Natural History. REDM courses listed below are considered as ones taught by the Faculty of Science.

Redpath Museum Courses

REDM 396	Undergraduate Research Project
REDM 400	Science and Museums
REDM 405	Natural History of East Africa
REDM 511	Advanced Museum-Based Science

11.13.34.3 Redpath Museum Faculty

Director

Hans C.E. Larsson

Emeritus Professor

Robert L. Carroll

Professors

David M. Green; Andrew Hendry; Anthony Ricciardi.

Associate Professors

Hans C.E. Larsson; Virginie Millien.

Assistant Professor

Rowan Barrett

Associate Members

Biology: Graham A.C. Bell; Lauren Chapman.

Chemistry: David N. Harpp.

Earth & Planetary Sciences: Jeanne Paquette.

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
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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)	Functional Biology of Plants and Animals
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 363	(3)	Mammalian Evolution
BIOL 418	(3)	Freshwater Invertebrate Ecology
BIOL 427	(3)	Herpetology
ENTO 330**	(3)	Insect Biology
ENTO 350**	(3)	Insect Biology and Control
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
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BIOL 205*	(3)	Functional Biology of Plants and Animals
BIOL 215*	(3)	Introduction to Ecology and Evolution
BIOL 240	(3)	Monteregian Flora
BIOL 355	(3)	Trees: Ecology and 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 Mineralogy
EPSC 233	(3)	Earth and Life History
ESYS 200	(3)	Earth System Processes
ESYS 300	(3)	Investigating the Earth System
GEOG 203	(3)	Environmental Systems
GEOG 272	(3)	Earth's Changing Surface
GEOG 470	(3)	Wetlands
GEOG 550	(3)	Historical Ecology Techniques

List D: Field Studies

* Note: Students may take either of the cross-listed courses NRSC 405 and REDM 405, but not both.

Students may also take other field courses with the permission of the Program Adviser.

BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 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
 Website: 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 > Browse Academic Units & Programs > Department of Integrated Studies in Education > section 5.8.2.4: Overview of Programs \(Integrated Studies in Education\)](#). Additionally, the **Master of Arts in Teaching and Learning** (MATL) is available in the Faculty of Education (see [Faculty of Education > Graduate > Browse Academic Units & Programs > : Integrated Studies in Education](#)).

11.13.35.3 Science or Mathematics for Teachers Faculty

Minor in Education for Science Students

Program Adviser: Jenna Prigioniero
 Faculty of Education
 Telephone: 514-398-7042
 Website: mcgill.ca/isa

11.13.35.4 Bachelor of Science (B.Sc.) - Minor Education for Science Students (18 credits)

This Minor allows Science students to develop or explore an interest in Education without committing themselves to completing a B.Ed. degree. Science students who have taken this Minor in Education will have completed some of the credits for the B.Ed. degree should they wish to enrol in that program. Students graduating with a B.Sc. should also consider the Master of Arts in Teaching and Learning (<http://www.mcgill.ca/dise/grad/>) if they are interested in obtaining a teaching license.

This minor program requires an application due to limited enrolment space. Please see <http://www.mcgill.ca/isa/faculty-advising/minor-programs> for procedures and deadlines.

For more information please contact:

Internships & Student Affairs Office, Faculty of Education

General Information: 514-398-7042

Website: <http://www.mcgill.ca/isa>

Required Courses (6 credits)

EDEC 260	(3)	Philosophical Foundations
EDPE 300	(3)	Educational Psychology

Complementary Courses (12 credits)

3 credits from:

EDEC 233	(3)	Indigenous Education
EDEC 248	(3)	Equity and Education
EDEC 249	(3)	Global Education and Social Justice

3 credits from:

EDEC 247	(3)	Policy Issues in Quebec and Indigenous Education
EDEM 220	(3)	Contemporary Issues in Education

6 credits from:

* 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
EDPE 304	(3)	Measurement and Evaluation
EDPI 341	(3)	Instruction in Inclusive Schools

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
EDPE 304	(3)	Measurement and Evaluation
EDPI 341	(3)	Instruction in Inclusive Schools

12 Study Abroad and Field Studies

12.1 Opportunities for Field Study and Study Abroad

Besides the many academic resources McGill offers on campus, there are also unparalleled opportunities to enrich your educational experience through exchange programs, internships, field study programs, and McGill courses taught off-campus and abroad. The following sections provide information regarding opportunities in the following categories:

- [section 12.2: Field Study Semesters and Off-Campus Courses](#) – participate in programs and courses offered by McGill University in local, regional, and international settings as a complement to classroom learning.
- [section 12.3: Internships and Co-op Programs](#) – participate in partnerships offered through McGill to gain valuable on-the-job knowledge in your field.
- [section 12.4: Exchange Programs](#) – study at one of McGill's partner universities while earning credit at McGill, and paying McGill tuition.
- [section 12.5: Independent Study Away](#) – Independently study away at another university while earning credit at McGill. Tuition is paid directly to the host university.

12.2 Field Study Semesters and Off-Campus Courses

McGill offers you a chance to put theory into practice through local, regional, and international field study semesters and individual courses. Field studies provide practical experience and a chance to integrate and apply knowledge gained in the classroom. In many cases, field courses can be counted toward major program requirements. You should see your adviser for details.

Field Study Semesters are packages of McGill courses aimed at upper-year students that focus on the physical and social aspects of the environment. They are offered in various regions around the world in the Summer, Fall, or Winter terms. Currently, Field Study Semesters are offered in East Africa (Kenya, Uganda, and Tanzania; see [section 12.2.1.1: Africa Field Study Semester](#)), the Canadian Arctic (Axel Heiberg Island; see [section 12.2.1.2: Arctic Field Study Semester](#)), Barbados (see [section 12.2.1.3: Barbados Field Semester](#) and [section 12.2.1.4: Barbados Interdisciplinary Tropical Studies Field Semester](#)), and Panama (see [section 12.2.1.5: Panama Field Study Semester](#)). Enrolment is limited, and application deadlines and costs vary, so you should consult the relevant sections of this publication for details. If you are interested in participating, you should begin planning your courses before the Field Study semester, as some of the field courses may require prerequisites.

Students participating in any one of the field study semesters, i.e., the Africa Field Study Semester (AFSS), the Arctic Field Study Semester (MAFS), the Barbados Field Study Semester (BFSS), the Barbados Interdisciplinary Tropical Studies (BITS) Field Study Semester, or the Panama Field Study Semester (PFSS), may complete the 18-credit Minor in Field Studies. See [section 12.2.1: Field Study Minor](#) for details.

Off-campus McGill courses are also offered to you and sometimes require separate departmental application. The courses are typically offered during the summer months and can be offered in places as varied as Italy, Mexico, or Brazil and in disciplines in Arts, Engineering (including Architecture), Science, Law, or Management. See [section 12.2.3: Off-Campus Courses](#).

12.2.1 Field Study Minor

General Information:

Email: ifso.science@mcgill.ca
Burnside Hall, Room 720

Field Study Minor Adviser (Faculty of Science):

Ryan Bouma
Email: ryan.bouma@mcgill.ca
Faculty of Science, Dawson Hall, Room 405

For more information and course lists, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.1.1 Africa Field Study Semester

Website: mcgill.ca/africa

The Africa Field Study Semester comprises 15 credits of field study courses. Two courses (6 credits) in the natural and social sciences provide interdisciplinary academic context for field study. The other 9 credits are taken from the complementary courses list. One final complementary course (3 credits) is taken on campus to complete the Minor program requirements.

Visit the [Africa website](#), or refer to [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#), for the latest program updates.

Offered: Winter term

Location: East Africa

Enrolment Limit: 38 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include airfare, local travel, all food and accommodation, special admission fees for parks and museums, as well as other field costs. Fee details for the upcoming semester are available at mcgill.ca/africa/program-fees.

Students can apply for a Mobility Award. See for details.

Application Deadline: March 31, 2022 for January 2023 (Winter term of the 2022-2023 academic year). Depending on space, there will be a second intake with a deadline date of November 1, 2022.

Application Details: Students must submit:

- the online application (available at mcgill.ca/africa/application);
- a copy of their transcript;
- a letter of intent;
- one reference letter; and
- a CV

to the Internship and Field Studies Office in the Faculty of Science:

Internships & Field Studies Office
Burnside Hall, Room 720
Telephone: 514-398-1063; 514-398-8365
Email: ifso.science@mcgill.ca
Website: mcgill.ca/science/undergraduate/internships-field

Prerequisites: The Africa Field Study Semester is intended for students in their final two years. A CGPA of 3.00 and higher is recommended.

Students from other universities are eligible to apply to the Africa Field Study Semester and must also meet the criteria for admission to McGill as a Visiting Student. Please see the Africa website for details.

For more information and course lists, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.1.2 Arctic Field Study Semester

Website: 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 mcgill.ca/arctic/program-fees.

Students can apply for a Mobility Bursary from the Government of Quebec; see mcgill.ca/studentaid/special-funding for details.

Application Deadline: March 31, 2022 for Summer 2022. The courses will be listed under "Fall 2022".

Application Details: Students must submit:

- the online application form (available at mcgill.ca/arctic/apply-now);
- a letter of intent;
- one reference letter;
- a CV; and
- a copy of their transcript.

to the Internship and Field Studies Office in the Faculty of Science:

Science Internship & Field Studies Office
Burnside Hall, Room 720
Telephone: 514-398-1063; 514-398-8365
Email: ifso.science@mcgill.ca
Website: mcgill.ca/science/student/internships-field

Prerequisites: The Arctic Field Study Semester is intended for students in their final two years. A CGPA of 3.00 and higher is recommended.

For more information and course lists, see *Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies (18 credits)*.

12.2.1.3 Barbados Field Semester

Website: mcgill.ca/bfss

Offered: Fall term

Location: Bellairs Research Institute in Barbados

Enrolment Limit: 25 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and most food, as well as other field costs; they do not include airfare. Fee details for the upcoming semester are available at mcgill.ca/bfss.

Students enrolled in the Barbados Field Study Semester (BFSS) program may be eligible for a Mobility Bursary for Exchanges; see mcgill.ca/studentaid/special-funding/mobility-exchanges for details.

Application Deadline: The deadline is in late March each year for admission to the following Fall semester.

Application Details: Students must submit:

- a letter of intent;
- a CV; and
- a copy of their transcript

by email to ifso.science@mcgill.ca. Further details are available at mcgill.ca/bfss.

Prerequisites: None

For more information and course lists, see *Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies (18 credits)*.

12.2.1.4 Barbados Interdisciplinary Tropical Studies Field Semester

Website: mcgill.ca/bits

The Barbados Interdisciplinary Tropical Studies Field Semester is administered by the Faculty of Agricultural and Environmental Sciences. Three intensive courses run consecutively with a 6-credit project course. Courses integrate class and laboratory experiences with extensive field trips.

Offered: Summer term

Location: Bellairs Research Institute in Barbados

Enrolment Limit: 25 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and most food, as well as other field costs; they do not include airfare. Fee details for the upcoming semester are available at mcgill.ca/bits/cost.

McGill students may be eligible for a Mobility Bursary; see mcgill.ca/studentaid/special-funding/mobility-exchanges for details.

Application Deadline: Please consult the [website](#) for upcoming deadlines.

Application Details: Students must submit:

- a letter of intent;
- a CV; and
- an application form (available on the [website](#))

by email to caroline.begg@mcgill.ca. Further details are available at mcgill.ca/bits.

Prerequisites: A CGPA of 2.5 or higher is recommended.

For more information on the field studies minor and course lists, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.1.5 Panama Field Study Semester

Website: mcgill.ca/pfss

Offered: Winter term

Location: Smithsonian Tropical Research Institute (STRI) in Panama

Enrolment Limit: 26 students

Fees: In addition to the regular McGill fees, students will be required to pay the additional costs associated with delivering the courses in the field. These costs include accommodation and other field costs; they do not include airfare, food, or other living expenses. Fee details for the upcoming semester are available at mcgill.ca/pfss/cost.

Students can apply for a Mobility Award. See mcgill.ca/mcgillabroad/funding/undergraduate-mobility-award for details.

Application Deadline: March 31, 2022* for January 2023 (Winter term of the 2022-2023 academic year).

*: *Please note that at time of publication, the application deadline was tentative and is subject to change. Please liaise with [pfss](#) for further details.*

Application Details: Students must submit:

- the online application (available at mcgill.ca/pfss/application);
- a copy of their transcript;
- a letter of intent; and
- a CV

to the Internship and Field Studies Office in the Faculty of Science:

Internships & Field Studies Office
 Burnside Hall, Room 720
 Telephone: 514-398-1063; 514-398-8365
 Email: ifso.science@mcgill.ca
 Website: mcgill.ca/science/undergraduate/internships-field

Prerequisites: HISP 218 Spanish Language Intensive - Elementary or equivalent proficiency, and MATH 203 Principles of Statistics 1 or equivalent. A CGPA of 3.00 and higher is recommended. The program is aimed at undergraduate students in their final year.

For more information and course lists, see [Faculty of Science > Undergraduate > Browse Academic Units & Programs > Field Study > section 11.13.15.1: Field Studies - Minor Field Studies \(18 credits\)](#).

12.2.2 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 mcgill.ca/minerva.

Application Details: For registration and/or advising, please contact the BCom Student Affairs Office at 514-398-4068.

12.2.2.2 Faculty of Engineering

The FACC 501 "Technology Business Plan Project" course, normally offered during the Winter term, includes a trip to Israel the following August — also known as the "Israel Start-Up Nation" experiential study trip. This course offers a unique entrepreneurial and cultural experience and is open to students across the University.

Further information is available on the McGill Abroad website.

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 240	(3)	Monteregian Flora
BIOL 331	(3)	Ecology/Behaviour Field Course
BIOL 334D1/BIOL 334D2	(3)	Applied Tropical Ecology
BIOL 335	(3)	Marine Mammals
BIOL 573	(3)	Vertebrate Palaeontology Field Course

12.2.3.4 Earth & Planetary Sciences

The following courses are two-week field studies (May) in selected branches of the geosciences to examine processes in geology.

Off-Campus Earth & Planetary Sciences Courses

EPSC 231	(3)	Field School 1
EPSC 331	(3)	Field School 2

12.2.3.5 Geography

The Faculty of Science offers the following Geography courses off campus.

Off-Campus Geography Courses

GEOG 290	(1)	Local Geographical Excursion
GEOG 425	(3)	Southeast Asia Urban Field Studies
GEOG 494	(3)	Urban Field Studies
GEOG 495	(3)	Field Studies - Physical Geography
GEOG 496	(3)	Geographical Excursion
GEOG 499	(3)	Subarctic Field Studies

12.2.3.6 History & Classical Studies

The Department of History and Classical Studies offers the following field courses.

Off-Campus History & Classical Studies Courses

CLAS 349	(3)	Archaeology Fieldwork: Italy
HIST 262	(3)	Mediterranean and European Interconnections

12.3 Internships and Co-op Programs

For information on internships and co-op programs, refer to [University Regulations and Resources > Undergraduate > section 1.7: Internships, Exchanges, and Co-op Programs](#), or the [Internship Offices Network website](#).

12.4 Exchange Programs

Exchanges allow McGill students to complete a semester or year of study at a partner university. Students explore, learn, and grow abroad, all while earning credit toward their McGill degree and paying McGill tuition.

Student exchange agreements are tuition exchange agreements that exist between McGill University and peer institutions which have been reviewed and approved by McGill. The number of exchange spaces available at the host institution are limited, and vary from year to year. McGill students nominated to participate on an exchange term abroad are billed McGill tuition and fees for that term (equivalent to 15 McGill credits). McGill University has agreements with over 150 universities in 39 countries around the world. 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 partners can be found here.

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 mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare for up-to-date information regarding exchanges.

12.4.2 Applying to go on Exchange

Applications must be submitted on Minerva. The McGill Application for Fall and full-year exchanges will be open from December to Mid-January. The Winter term application will open mid-April. *For Faculty of Law application deadlines, click here.*

Detailed information on the application process and deadlines can be found on the McGill Abroad website: mcgill.ca/mcgillabroad/students-going-abroad/plan-and-prepare.

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 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 exchange, the number of transfer credits granted by McGill, and where applicable, McGill course exemptions.

Students can begin the transfer of credits process once they have registered at the host school and have obtained course syllabi. For more detailed information, students should consult their faculty Student Affairs Office. The transfer credits process should be completed within the shortest delay possible after the end of the exchange term.

Before leaving the host institution, students should order two (2) copies of the official transcript for their files, and ensure that the institution sends an official version of the transcript to Service Point at McGill (mcgill.ca/servicepoint).

12.5 Independent Study Away

Unlike an exchange, participating in an Independent Study Away means that you apply and pay tuition to your host university independently as a visiting student. This program is an opportunity to go abroad to a destination not covered by McGill's already existing exchange destinations. You must consult the Student Affairs Office of your McGill faculty, as well as the Admissions Office of the university to which you are applying regarding application requirements.

Contact information for your faculty's Student Affairs Office is available at mcgill.ca/students/advising/advisordirectory.

12.6 Funding opportunities for going abroad

Awards and financial assistance are available to students to help with the cost of going abroad. Further information, as well as application deadlines and eligibility requirements, can be found in the following sections and on the [McGill Abroad website](#).

12.6.1 Government Student Financial Assistance

Students participating in an official McGill exchange program show as registered full-time on their McGill transcript. As such, Canadian students participating in an official McGill exchange program are eligible to apply for [government student financial assistance](#). American students participating in an official McGill exchange are eligible to apply for their federal aid (Title IV U.S. Direct Loans) within certain constraints and are strongly advised to consult [here](#) for more details.

Students who take part in an Independent Study Away (i.e. "study away on their own") are not eligible to receive government aid through McGill, as they are registered at their host institution. Students should verify with the institution they will be attending whether or not they will be eligible to receive government student financial assistance.

12.6.2 McGill Scholarships and Awards

For students who hold renewable scholarships and awards, these may be retained for up to one year while on exchange, however will not be eligible for McGill's yearly in-course scholarships and awards. For further information, please refer to the [Regulations for Award Recipients](#) under "Term or Year Award for Academic Reasons", consult the unit who administers the award, or contact studentexchanges@mcgill.ca.

Students are encouraged to inquire with their individual faculties who may offer travel-related awards available by application.

12.6.3 McGill's Mobility Bursaries for Exchanges

The University recognises that the additional costs of going on an official McGill University exchange may be difficult for some students to assume on their own. Thanks to the Quebec government's Programme de mobilité internationale et de courts séjours à l'extérieur du Québec (PMICSE), McGill is able to help defray these costs for students who otherwise could not afford to participate. This program is administered by the Scholarships & Student Aid Office, and is based on demonstrated financial need. The application is available to any undergraduate student approved for an eligible exchange semester abroad. Further information, as well as application deadlines and eligibility, can be found on the [McGill Abroad website](#) or at [Mobility Bursaries for Exchanges](#) Mobility Bursaries for Exchanges.

12.6.4 McGill's Enriched Educational Opportunities (EEO) Bursaries

The EEO Bursary Program is administered by the Scholarships & Student Aid Office, to help defray costs or forgone earnings for students who wish to participate in Field Semesters, Field Courses, as well as unpaid off-campus Internships and Research opportunities. Allocation is based on demonstrated financial need. Further information, as well as application information and eligibility requirements can be found on the [McGill Abroad website](#) or at [EEO Bursaries](#).

12.7 Further Information about Global Learning Opportunities offered to McGill students

For more details regarding the global learning opportunities offered to McGill students as well as application procedures, deadlines, eligibility criteria, etc., visit McGill Abroad's [website](#). Students can also contact Service Point for Student Exchange related inquiries.

Service Point

Telephone: 514-398-7878

Email: studentexchanges@mcgill.ca