



Faculty of Education

Programs, Courses and Univer

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

1 . McGill University reserves the right to mak

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- 1 About the Faculty, page 11
- 2 History, page 11
- 3 Faculty of Education Facilities, page 11
 - 3.1 Education Library and Curriculum Resources Centre, page 11
 - 3.2 Education Undergraduate Society (EDUS), page 12
 - 3.3 Computer Facilities, page 12
 - 3.4 McGill Career Planning Service (CaPS), page 12
 - 3.5 McGill Journal of Education, page 12
 - 3.6 A.S. Lamb Learning Centre, page 13
 - 3.7 Office of Student Teaching (OST), page 13
 - 3.8 Student Affairs Office (SAO), page 13
 - 3.9 Faculty Institutes, Offices, and Centres, page 13
 - 3.9.1 The Institute for Human Development and Well-Being, page 13
 - 3.9.2 The Office of Leadership in Community and International Initiatives, page 14
 - 3.9.3 The International Centre for Youth Gambling Problems and High-Risk Behaviors, page 14
 - 3.9.4 The Research Centre for Physical Activity and Health, page 14
- 4 About the Faculty of Education (Undergraduate), page 14
 - 4.1 Department of Integrated Studies in Education, page 14
 - 4.2 Department of Educational and Counselling Psychology, page 15
 - 4.3 Department of Kinesiology and Physical Education, page 15
 - 4.4 Location, page 15
 - 4.5 Administrative Officers, page 15
- 5 Overview of Faculty Programs, page 16
 - 5.1 Undergraduate Education Programs, page 16
 - 5.1.1 General Admission Requirements, page 17
 - 5.1.1.1 Language Requirement for Applicants to B.Ed. TESL Program, page 17
 - 5.1.2 Credit Requirements, page 17
 - 5.1.3 Quebec Teacher Certification, page 18
 - 5.1.3.1 International Students, page 18
 - 5.2 Programs of Professional Development, page 18
 - 5.2.1 Department of Educational and Counselling Psychology, page 18
 - 5.2.2 Department of Integrated Studies in Education, page 19
 - 5.3 Programs for First Nations and Inuit, page 19
- 6 Faculty Regulations for Undergraduate Programs, page 19
 - 6.1 Advising, page 20
 - 6.2 Code of Professional Conduct (Faculty Regulations for Undergraduate Programs), page 20
 - 6.3 English Language Requirement, page 20
 - 6.4 Additional Requirements for Students in the B.Ed. TFSL program, page 20
 - 6.5 Judicial Record Verification for Students in the Bachelor of Education Programs, page 20
 - 6.6 Course and Program Regulations, page 21

- 6.6.1 Course Load, page 21
- 6.6.2 Time Limit and Credits for Completion of Degrees, page 21
- 6.6.3 Course Requirements, page 21
- 6.6.4 Courses Taken as Transfer Credit, page 21
- 6.6.5 Inter-University Transfer Credit, page 21
- 6.6.6 Distance Education (online) Courses, page 21
- 6.6.7 Courses Taken under Satisfactory/Unsatisfactory Option, page 22
- 6.6.8 Course Equivalencies and Overlap, page 22
- 6.6.9 Dress Regulations, page 22
- 6.7 Registration, page 22
 - 6.7.1 Course Registration, page 22
 - 6.7.2 Withdrawals, page 22
- 6.8 Attendance, page 23
- 6.9 Grading, page 23
- 6.10 Incomplete Grades, page 23

-
- 7.1 Field Experiences, page 27
 - 7.2 Registration, page 27
 - 7.2.1 Newly Admitted Students, page 27
 - 7.2.2 Returning Students, page 27
 - 7.3 Student Responsibilities, page 28
 - 7.3.1 Guidelines (Syllabus), page 28
 - 7.3.2 Attendance and Absences, page 28
 - 7.3.3 Judicial Record Verification, page 28
 - 7.3.4 Work Permit for International Students, page 28
 - 7.4 Grading and Credit, page 28
 - 7.4.1 Termination of Field Experience, page 29
 - 7.4.2 Withdrawal from Field Experience, page 29
 - 7.4.3 Transfer Credit, page 29
 - 7.5 Code of Professional Conduct: Code of Ethics for Student Teachers, page 29
 - 7.5.1 Preamble – A Student-Centred Perspective, page 29
 - 7.5.2 Academic Freedom and Responsibilities, page 30
 - 7.5.3 Ethics and Law, page 30
 - 7.5.4 Guiding Ethical Principles, page 30
 - 7.5.5 Putting Principles into Practice: Venues for Communication, page 31
 - 8 Department of Educational and Counselling Psychology, page 31
 - 8.1 Location, page 31
 - 8.2 About the Department of Educational and Counselling Psychology, page 31
 - 8.3 Department of Educational and Counselling Psychology Faculty, page 32
 - 9 Department of Integrated Studies in Education, page 33
 - 9.1 Location, page 33
 - 9.2 About the Department of Integrated Studies in Education, page 34
 - 9.3 Department of Integrated Studies in Education Faculty, page 34
 - 9.4 Overview of Programs (Integrated Studies in Education), page 35
 - 9.4.1 Bachelor of Education: Secondary Program (120 credits), page 36
 - 9.4.2 Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program (137 credits), page 36
 - 9.4.3 Concurrent Bachelor of Science/Bachelor of Education (Secondary) (135 credits), page 36
 - 9.4.4 Bachelor of Education (Kindergarten and Elementary) (120 credits), page 36
 - 9.4.5 Baccalauréat en enseignement du français langue seconde (120 credits) (B.Ed. TFSL), page 36
 - 9.4.6 Bachelor of Education in Teaching English as a Second Language (120 credits), page 36
 - 9.4.7 Graduate Programs, page 36
 - 9.4.8 In-Service Programs, page 36
 - 9.5 Bachelor of Education (B.Ed.) - Secondary English (120 credits) , page 37
 - 9.6 Bachelor of Education (B.Ed.) - Secondary Mathematics (120 credits) , page 40
 - 9.7 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture (120 credits) , page 44

-
- 9.8 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography (120 credits) , page 48
- 9.9 Bachelor of Education (B.Ed.) - Secondary Science and Technology (120 credits) , page 51
- 9.10 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers (135 credits) , page 57
- 9.11 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers (135 credits) , page 61
- 9.12 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Chemistry for Teachers (135 credits) , page 66
- 9.13 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers (135 credits) , page 70
- 9.14 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers (135 credits) , page 75
- 9.15 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Physics for Teachers (135 credits) , page 79
- 9.16 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers (135 credits) , page 84
- 9.17 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Chemistry for Teachers (135 credits) , page 88
- 9.18 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Mathematics for Teachers (135 credits) , page 92
- 9.19 Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits) , page 97
- 9.19.1 Admissions to the Concurrent Bachelor of Music (Major Music Education) and Bachelor of Education in Music Program, page 101
- 9.20 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education (120 credits) , page 101
- 9.21 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Education - First Nations and Inuit Studies (120 credits) , page 108
- 9.22 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Jewish Studies (120 credits) , page 110
- 9.22.1 Bachelor of Education Kindergarten and Elementary Program (Jewish Studies Option), page 112
- 9.23 Bachelor of Education (B.Ed.) - Kindergarten and Elementary Pédagogie de l'Immersion Française (120 credits) , page 112
- 9.24 Bachelor of Education (B.Ed.) - Teaching French as a Second Language - TFSL - Joint Program with the Université de Montréal (120 credits) , page 114
- 9.25 Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary (120 credits) , page 117
- 10 Programs for First Nations and Inuit, page 119
- 10.1 Certificate in Education for First Nations and Inuit (60 credits) , page 120
- 10.2 Certificate in Education for First Nations and Inuit Physical Education (60 credits) , page 122
- 10.3 Admission to the Certificate in Education for First Nations and Inuit and to the Certificate in Education for First Nations and Inuit Physical Education, page 125
- 10.4 Certificate in Aboriginal Literacy Education (30 credits) , page 125

-
- 10.4.1 Admission to the Certificate in Aboriginal Literacy Education, page 126
 - 10.5 Certificate in Middle School Education in Aboriginal Communities (30 credits) , page 126
 - 10.5.1 Admission to the Certificate in Middle School Education in Aboriginal Communities , page 127
 - 10.6 Certificate in First Nations and Inuit Educational Leadership (30 credits) , page 127
 - 10.6.1 Admission to the Certificate in First Nations and Inuit Educational Leadership , page 128
 - 10.7 Bachelor of Education for Certified Teachers — Elementary Education — Native and Northern (90 credits) , page 128
 - 10.7.1 Admission Requirements for the B.Ed. for Certified Teachers , page 129
 - 10.8 Certificate in Aboriginal Education for Certified Teachers (30 credits) , page 129
 - 10.8.1 Admission to the Certificate in Aboriginal Education for Certified Teachers , page 129
 - 10.9 Certificate in First Nations and Inuit Student Personnel Services (30 credits) , page 130
 - 10.9.1 Admission to Certificate in First Nations and Inuit Student Personnel Services, page 130
 - 11 Department of Kinesiology and Physical Education, page 131
 - 11.1 Location, page 131
 - 11.2 About the Department of Kinesiology and Physical Education, page 131
 - 11.3 Department of Kinesiology and Physical Education Faculty, page 131
 - 11.4 Bachelor of Education (B.Ed.) - Physical and Health Education (120 credits) , page 132
 - 11.5 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology (90 credits) , page 134
 - 11.6 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology - Honours (90 credits) , page 136
 - 12 School of Information Studies, page 138
 - 12.1 Location, page 138
 - 12.2 About the School of Information Studies, page 139
 - 12.3 School of Information Studies Faculty, page 139

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 25 computers connected to the McGill network and is available for courses, workshops, and individual use by students and staff. Laser printing is also available at a cost. Access to the McGill wireless network is available for laptops equipped with a wireless card.

LAN Tech.: Mr. Sanjeev Panigrahy
Location: McGill Sports Complex, Room 207A
475 Pine Avenue West
Website: www.mcgill.ca/edu-kpe/facilities/asllc

Hours

Monday to Friday 09:00–16:00

3.7 Office of Student Teaching (OST)

The Office of Student Teaching is responsible for the planning and implementation of field experiences and arranging with school boards and schools for the placement of student teachers in the Bachelor of Education and Masters in Education programs. The Office coordinates student teaching among Departments within the Faculty, and develops partnerships with the education community. The Office offers training to colleagues in schools.

Office Hours

Monday to Friday 08:30–17:00

Director: Professor Fiona J. Benson
Office: Education Building, Room 431A
Telephone: 514-398-7046
Fll.ca/edu-rs

3.9.2 The Office of Leadership in Community and International Initiatives

Formerly the Centre for Educational Leadership (CEL), the office of Leadership in Community and International Initiatives (LCII) is a newly created unit in the Faculty of Education. The goals of LCII are:

- to develop, facilitate, enhance, and leverage collaborations, partnerships, and exchanges with various local, national, or international institutions and communities through a central, tightly aligned and well integrated administrative structure;
- to optimize existing and foster new possibilities for collaborations and partnerships including community-based research, professional development / research activities, and seminars and workshops; and
- to bridge theory and practice based on ethical and socially conscious initiatives.

Director: Dr. Lynn Butler-Kisber

Email: lynn.butlerkisber@mcgill.ca

3.9.3 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.

Directors: Dr. Jeffrey Derevensky and Dr. Rina Gupta

3.9.4 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. Russell Hepple

4 About the Faculty of Education (Undergraduate)

4.1 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)
 - Concurrent Bachelor of Science and Bachelor of Education (Secondary) (**New students are no longer being admitted to this program.**)
 - 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
-

- Bachelor of Education Teaching French as a Second Language (**New students are no longer being admitted to this program.**)
- Programs for First Nations and Inuit

4.2 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 interventions for children, youth, and adults in educational, clinical, and research settings. The Department is offering

The Department offers:

- Minor concentrations for undergraduate students

4.3 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

4.4 Location

3700 McTavish Street
Montreal, Quebec H3A 1Y2
Canada

Telephone: 514-398-7042

Fax: 514-398-4679

Website: www.mcgill.ca/education

4.5 Administrative Officers

Dean

Hélène Perrault; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

Associate Deans

TBA (*Administration and Infrastructure*)

Dilson Rassier; B.P.E., M.Sc.(Brazil), Ph.D.(Calg.) (*Research*)

Elizabeth Wood; B.F.A.(York), B.F.A.(C'dia), Dip.Ed., M.A., Ph.D.(McG.) (*Academic Affairs*)

Executive Director (Student Affairs)

Kimiz Dalkir; B.Sc., M.B.A.(imiz D 148BT/Idemic)

Unit Heads

Jeffrey Derevensky; B.A.(C.W. Post), M.A., Ph.D.(McG.) – **Interim Chair** (*Educational and Counselling Psychology*)

Ralf St. Clair; Dipl.(Moray House), M.Sc. (Heriot-Watt), Ph.D. (Br. Col.) – **Chair** (*Integrated Studies in Education*)

René A. Turcotte; H.B.P.H.E.(Laur.), M.Sc., Ph.D.(Alta.) – **Chair** (*Kinesiology and Physical Education*)

Office of Student Teaching Director

Fiona Benson; B.A.(Ott.), B.Ed., M.Ed., Ph.D.(McG.)

Student Affairs Officer

Joan Barrett

Senior Advisor, Finance and Resource Planning

Genevieve Côté

Building Director

Patricia Jackson

Human Resources Adviser

Dina B. Medeiros

5 Overview of Faculty Programs

The Faculty of Education offers three different kinds of programs.

Undergraduate Programs:

section 9.4.5: Baccalauréat en enseignement du français langue seconde (120 crédits) (B.Ed. TFSL), offered by the Department of Integrated Studies in Education jointly with the *Université de Montréal*.

Note: The B.Ed. TFSL program is no longer accepting new students as of Fall 2011.

section 9.4.6: Bachelor of Education in Teaching English as a Second Language (120 crédits), offered by the Department of Integrated Studies in Education.

section 11.4: Bachelor of Education (B.Ed.) - Physical and Health Education (120 crédits), offered by the Department of Kinesiology and Physical Education.

section 9.4.2: Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program (137 crédits), offered jointly by the Department of Integrated Studies in Education and the Schulich School of Music.

See also : *Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 crédits)* under *Schulich School of Music*.

section 9.4.3: Concurrent Bachelor of Science/Bachelor of Education (Secondary) (135 crédits), offered jointly by the Department of Integrated Studies in Education and the Faculty of Science.

Note: The Concurrent B.Sc. and B.Ed. program is no longer accepting new students as of Fall 2012.

A student who successfully completes any of the **above** programs, (and meets other requirements set out by the *Ministère de l'Éducation, du Loisir et du Sport* (MELS)) is recommended for certification as a teacher in the province of Quebec; see *section 5.1.3: Quebec Teacher Certification*.

section 11.5: Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology (90 crédits), 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.

5.1.1 General Admission Requirements

For information about admission requirements to the B.Ed., B.Sc.(Kinesiology), or Concurrent B.Mus. and B.Ed. programs, refer to the Undergraduate Admissions Guide, found at www.mcgill.ca/applying. Please note that applicants to the Concurrent B.Mus. and B.Ed. must apply through the Schulich School of Music.

For information about interfaculty transfers or readmission, see *Programs, Courses and University Regulations > University Regulations and Resources > Registration > : Interfaculty Transfer* or *: Readmission*, as well as information posted on the Student Affairs Office website, www.mcgill.ca/edu-sao.

Although no additional prerequisite courses are required, the Faculty recommends that applicants to the B.Ed. Secondary Science & Technology, Secondary Mathematics, and B.Ed. Physical & Health Education programs have appropriate background in Science and Mathematics courses, i.e., biology, chemistry, physics, and mathematics. Students having other backgrounds will be considered for admission, but will be required to complete prerequisite courses in mathematics and science that may increase the number of credits required for the degree.

5.1.1.1 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.

5.1.2 Credit Requirements

Quebec T

Department of Integrated Studies in Education

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.

6.1 Advising

Refer to *Programs, Courses and University Regulations > University Regulations and Resources > Undergraduate > : Undergraduate Advising*, and the Student Affairs website, www.mcgill.ca/edu-sao, for further information. Assistance is also available by emailing: sao.education@mcgill.ca.

All **newly admitted**

6.6 Course and Program Regulations

6.6.1 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 Executive Director, Student Affairs gives

6.6.7 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 *Programs, Courses and University Regulations* > *University Regulations and Resources* > *Undergraduate* > : [Courses Taken under the Satisfactory/Unsatisfactory \(S/U\) Option](#).

6.6.8 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: www.mcgill.ca/students/courses/plan/transfer, as well as the following website for Faculty-specific information: www.mcgill.ca/edu-sao.

6.6.9 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 pro

6.8 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 e

6.11.3 Reassessment of Course Work

6.12.2.3 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

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 term.

7 Student Teaching/Field Experience

The **Office of Student Teaching (OST)**, www.mcgill.ca/ost, is responsible for arranging the placement and evaluation of all student teachers in supervised Field Experiences.

7.1 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 Office of Student Teaching. Under no circumstances should students make their own placement arrangements;
- must be taken in the required sequence;
- require that newly admitted and returning students follow registration procedures (see [section 6.7: Registration](#)) or risk not being placed in a host school;
- are completed in schools within anglophone school boards in the province of Quebec in the majority of cases, with the exception of the B.Ed. TESL program Field Experiences, which take place in schools within francophone school boards in the province of Quebec;
- can be specialized in some circumstances. Refer to the OST website for information regarding such opportunities (distance, special needs, resource room, adult education, etc.);
- could require that students travel some distance to their host school and 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 the University-scheduled Study Break in the Winter term;
- may continue through May into the Summer term (refer to the OST website or Minerva for exact dates).

7.2 Registration

7.2.1 Newly Admitted Students

Newly admitted students:

- in B.Ed. K/Elementary, B.Ed. TESL, B.Ed. Secondary programs must be registered for Field Experience 1 by the end of August (see www.mcgill.ca/importantdates for deadline);
- in B.Ed. Secondary Science and Math programs should consult an adviser during the August advising sessions prior to registering for Field Experience courses; Field Experience 1 is offered in the Summer term for these B.Ed. Secondary subjects only;
- in B.Ed. Music, and B.Ed. Physical and Health Education programs must register in February for Field Experience 1 (Summer term);
- who are registered for a Field Experience will receive instructions for accessing the online Student Teaching Placement Form at their official @mail.mcgill.ca email address. Forms must be submitted by the date indicated in the email.

7.2.2 Returning Students

Returning students:

- must register for Field Experience 3 on Minerva by mid-April of the preceding academic year (see www.mcgill.ca/importantdates for deadline). Field Experience 3 begins in late August before the start of lectures. (See Minerva or OST website for details.)
- must register for Field Experience 4 on Minerva by the beginning of October (see www.mcgill.ca/importantdates for deadline);
- who are registered for a Field Experience will receive instructions for accessing the online Student Teaching Placement Form at their official @mail.mcgill.ca email address. Forms must be submitted by the date indicated in the email;
- must be in Satisfactory Standing and have satisfied all prerequisite and corequisite course requirements (refer to www.mcgill.ca/edu-sao/current). 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 7.4.1: Termination of 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.

7.3 Student Responsibilities

Students are responsible for familiarizing themselves with the policies and rules gov

Students must receive a Pass grade in order to proceed in the B.Ed. program. Failure (F, J, KF, WF) in any Field Experience places a student in Unsatisfactory Standing, requiring withdrawal from the T

1. The Code addresses the interdependent duties, rights, and responsibilities of student teachers, faculty members, and educational partners.
2. By addressing common issues and needs, the Code seeks to articulate and make explicit ethical principles that transcend disciplinary boundaries. These principles reflect the fundamental values that are expressed in the duties, rights, and responsibilities of all involved in Teacher Education.
3. The Code requires a reasonable flexibility in the implementation of common principles. It is designed to help those involved in Teacher Education, as a matter of sound ethical reasoning, to understand and respect the contexts in which they work and accommodate the needs of others.
4. The Code seeks to encourage continued reflection and thoughtful response to ethical issues. It does not seek definitive answers to all ethical questions or situations. Rather, it seeks to outline the guiding principles to ethical conduct and to identify major issues that are essential to the development and implementation of this Code.

- **Context of an Ethics Framework for Student Teachers**

The principles and norms guiding ethical conduct are developed within an ever-evolving complex societal context, elements of which include the need for reflective action and ethical principles.

Education is premised on a fundamental moral commitment to advance and construct knowledge and to ensure human understanding and respect for individual and collective well-being and integrity.

The moral imperative of respect translates into the following ethical principles that assume a student-centred perspective as articulated in the Quebec Curriculum Reform and Competencies outlined for Teacher Education.

7.5.2 Academic Freedom and Responsibilities

Teachers enjoy, and should continue to enjoy, important freedoms and privileges. However, with freedoms come responsibilities and ethical challenges. This Code of Ethics is in keeping with the philosophy and spirit of the New Directions that are embedded in the document “Teacher Training: Orientations, Professional Competencies” (MEQ 2001) and the reflective practice literature.

The role of the teacher and the contexts of teaching have changed. Thus, new resources (knowledge, skills, attitudes) are required to practice the profession and to meet the challenges of teaching and learning in whatever contexts student teachers may find themselves, and to engage in professional development individually and with others.

7.5.3 Ethics and Law

“Teaching is governed by a legal and regulatory framework” (MEQ 2001, p. 120). The law affects and regulates the standards and norms of teaching behaviours in a variety of ways such as respecting privacy, confidentiality, intellectual property, and competence. Human rights legislation prohibits discrimination and recognizes equal treatment as fundamental to human dignity and well-being. Teachers should respect the spirit of the Canadian Charter of Rights and Freedoms, particularly the sections dealing with life, liberty, and the security of the person, as well as those involving equality and discrimination and the Education Act that sets out the obligations and rights of teachers.

7.5.4 Guiding Ethical Principles

Ethical student teachers should respect the following guiding ethical principles:

1. **Respect for Human Dignity**
 - Speaks and acts toward all students with respect and dignity; and deals judiciously with them at all times, always mindful of their individual rights and personal sensibilities.
 - Respects the dignity and responsibilities of cooperating teachers, peers, principals, parents, and other professionals or para-professionals within the school, school board, and community.
2. **Respect for Vulnerable Persons**
 - Respects and recognizes ethical obligations toward vulnerable persons. This principle recognizes that students are in a vulnerable position and that student teachers are in a privileged relationship with students and their families and will always refrain from exploiting that relationship in any form or manner.
3. **Respect for Confidentiality and Privacy**
 - Respects the confidential nature of all information related to students and their families and will share such information in an appropriate manner only with those directly concerned with their welfare.
 - Respects the confidential nature of all information related to all school personnel and will share such information in an appropriate manner.
4. **Respect for Justice**
 - Respects and recognizes the right of individuals to be treated with fairness and equity and the importance of avoiding conflicts of interest.
5. **Respect for Safety of Students**
 - Respects the right of individuals to expect that student teachers will engage in practices that aim to ensure the physical, psychological, and emotional safety of students.

6. Respect for Existing Ethical Codes and Professional Standards

- Respects the authority, roles, and responsibilities of the cooperating teacher, and agrees to adhere to the responsibilities and obligations for teachers as outlined in the Education Act, Faculty, and Uni

Associate Member

Reut Gruber; B.A., M.A., Ph.D.(Tel Aviv)

Associate Professor (Non-Tenure Track)

Marcia Delcourt; B.S.(Bloomsburg St.), M.A., Ph.D.(Conn.) (*part-time*)

Adjunct Professors

Dermot Bowler

Karen Cohen-Gazith

Yves de Roten

Thomas Goetz

Judith Gradinger

Calvin Kalman

Katherine Moxness

Judith Norton

Rhoda Root

Erica Shoshana Ross

Anastassios Stalikas

Jessica Toste

Helen-Maria Vasiliadis

Harold Wynne

Research Associates

Rina Gupta

Jasvinder Magon

Diana Tabatabai

Laura Winer

9 Department of Integrated Studies in Education

9.1 Location

Faculty of Education

3700 McTavish Street, Room 244
Montreal, Quebec H3A 1Y2

Website: www.mcgill.ca/dise

Undergraduate Programs:

Telephone: 514-398-4527
Fax: 514-398-4529

Graduate and Certificate Programs:

Telephone: 514-398-7149
Fax: 514-398-4529

9.2 About the Department of Integrated Studies in Education

The Department of Integrated Studies in Education, created in September 2001, incorporates the programs and staff previously associated with the Departments of Culture and Values in Education, Educational Studies, Second Language Education, and First Nations and Inuit Education.

The Department offers four-year programs for CEGEP graduates and five-year programs for out-of-province students leading to a B.Ed. degree.

For B.Ed. program overviews, see www.mcgill.ca/dise/progs.

9.3 Department of Integrated Studies in Education Faculty

Chair

Ralf St. Clair

Director of Undergraduate Programs

Caroline Riches

Director of B.Ed. Kindergarten and Elementary Program

Beverly Baker

Director of Graduate Programs

Lise Winer

Emeritus Professors

Patrick X. Dias; B.A., M.A.(Karachi), B.Ed., Ph.D.(Montr.)

Thomas A. Francoeur; B.A., Lic.Ped., D.Ed.(Montr.), M.A.(Ott.), Dip.Past.Theol.(Brussels)

Margaret Gillett; B.A., Dip.Ed.(Syd.), M.A.(Russell Sage), Ed.D.(Col.) (*William C. Macdonald Emeritus Professor of Education*)

John B. Gradwell; B.A., M.A.(Calif.), Ph.D.(Iowa)

Norman Henchey; B.A., B.Ped., Lic.Ped.(Montr.), Ph.D.(McG.)

Denise Lussier; B.A.(Coll. Jésus-Marie de Sillery), M.Ed.(Boston), M.A., Ph.D.(Laval) (*Post-retirement*)

Jacques J. Rebuffot; B.ès L., L.ès L., D.E.S.(Aix-Marseille), Dip. I.E.P., Dr. 3rd Cy.(Strasbourg)

Bernard Shapiro; B.A.(McG.), M.A.T., Ed.D.(Harv.)

David C. Smith; B.Ed., M.A.(McG.), Ph.D.(Lond.), F.C.C.T., F.R.S.A.

R. Lynn Studham; N.D.D.(Sunderland), A.R.A.(Royal Acad., Copen.), M.A.(E. Carolina), C.S.G.A., S.C.A.

John R. Wolforth; B.Sc.(Sheff.), M.A., Ph.D.(Br. Col.)

Professors

Lynn Butler-Kisber; B.Ed., M.Ed.(McG.), Ed.D.(Harv.)

David Dillon; B.A.(St. Columban's), M.S.(SW Texas St.), Ph.D.(Texas)

Ratna Ghosh; C.M., B.A.(Calc.), M.A., Ph.D.(Calg.) F.R.S.C. (*William C. Macdonald Professor of Education*) (*James McGill Professor*)

Barry Levy; B.A., M.A., BRE(Yeshiva), Ph.D.(NYU)

Roy Lyster; B.A.(Regina), M.A.(Paris VII), B.Ed., M.Ed., Ph.D.(Tor.)

Mary H. Maguire; B.A., B.Ed., M.A.(Montr.), M.Ed., Cert. Reading(McG.), Ph.D.(Ariz.)

Claudia A. Mitchell; B.A.(Bran.), M.A.(Mt. St. Vin.), Ph.D.(Alta.) (*James McGill Professor*)

Anthony Paré; B.Ed., M.Ed., Ph.D.(McG.)

Ralf St. Clair; Dipl.(Moray House), M.Sc.(Heriot-Watt), Ph.D.(Br. Col.)

Lise Winer; B.A.(Pitt.), M.A.(Minn.), Cert. Ped.(C'dia), Ph.D.(West Indies)

9.4.1 Bachelor of Education: Secondary Program (120 credits)

The aim of the B.Ed. Secondary program is to prepare strong beginning 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, professional studies centred on school-based practicum, supported by studies in pedagogy, curriculum, and educational foundations. 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, depending on their academic record, may be required to complete additional courses in order to gain the appropriate subject area background.

9.4.2 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. 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.

9.4.3 Concurrent Bachelor of Science/Bachelor of Education (Secondary) (135 credits)

New students are no longer being admitted to this program.

This program provides students with the opportunity to attain a Bachelor of Science degree and a Bachelor of Education degree concurrently. The two degrees are awarded during the same convocation period. 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 135 credits.

9.4.4 Bachelor of Education (Kindergarten and Elementary) (120 credits)

This program leads to certification to teach children between the ages of five and 11 years. It consists of four years of full-time study requiring the completion of 120 credits (150 credits or five years for out-of-province students) of academic and professional courses.

Options within the B.Ed. (Kindergarten and Elementary) program are:

- First Nations and Inuit Studies
- Jewish Studies
- Pédagogie de l'immersion française

9.4.5 Baccalauréat en enseignement du français langue seconde (120 credits) (B.Ed. TFSL)

New students are no longer being admitted to this program as of Fall 2011.

This four-year program (normally 120 credits or four years for students who have completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies) prepares specialist teachers to teach French as a second language, in Core French programs, immersion programs, intensive programs, and *classes d'accueil*, at both the elementary and the secondary levels. Offered by the Department of Integrated Studies in Education jointly with the *Université de Montréal* (www.mcgill.ca/dise/progs/tfsl/current).

9.4.6 Bachelor of Education in Teaching English as a Second Language (120 credits)

This program prepares specialist teachers to teach English as a second language at both the elementary level (including regular and intensive ESL) and the secondary level (including regular ESL and ESLA – English Second Language Arts). 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 and educational foundations.

9.4.7 Graduate Programs

At the graduate level, the Department offers M.A. programs with thesis and non-thesis options in the following areas: Education and Society, Educational Leadership, and Second Language Education.

The Department offers a Master of Arts in Teaching and Learning (MATL), leading to teacher certification at the secondary level for those meeting specific criteria. See www.mcgill.ca/dise/progs/matl/prospective.

The Department also offers graduate certificates in Leadership and Teaching English as a Second Language. See www.mcgill.ca/dise/grad.

9.4.8 In-Service Programs

The Department of Integrated Studies in Education offers a number of in-service programs through First Nations and Inuit Education: a Certificate in Education for First Nations and Inuit; a Certificate in Aboriginal Literacy Education; a Certificate in Middle School Education in Aboriginal Communities;

a Certificate in First Nations and Inuit Educational Leadership; a Certificate in Aboriginal Education for Certified Teachers; a Certificate in First Nations and Inuit Student Personnel Services; and a Bachelor of Education for Certified Teachers.

9.5 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 academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

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 for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory level courses in English, as well as to explore areas that are not normally taken as teachable subject areas within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. The list includes English literature courses that may be used toward the academic component of the Secondary English course requirements. Also included are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level.

| | | |
|------------|-----|----------------------------------|
| CEAP 250* | (3) | Research Essay & Rhetoric |
| EDEC 203* | (3) | Communication in Education |
| EDEM 220 | (3) | Contemporary Issues in Education |
| ENGL 201 | (3) | Survey of English Literature 2 |
| ENGL 215 | (3) | Introduction to Shakespeare |
| ENGL 226 | (3) | American Literature 2 |
| FRSL 101D1 | (3) | Beginners French |
| FRSL 101D2 | (3) | Beginners French |
| 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) | The Study of World Religions 1 |

Required Courses (45 credits)

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 254 | (1) | Second Professional Seminar (Secondary) |
| EDEC 351 | (2) | Third Professional Seminar (Secondary) |
| EDEC 404 | (3) | Fourth Year Professional Seminar (Sec) |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |

| | | |
|----------|-----|-------------------------------------|
| EDFE 351 | (8) | Third Field Experience (Secondary) |
| EDFE 451 | (7) | Fourth Field Experience (Secondary) |
| EDPE 300 | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309 | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

| | | |
|----------|-----|-------------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural Education |
| EDEC 249 | (3) | Global Education and Social Justice |

Philosophy of Education

3 credits from:

| | | |
|----------|-----|----------------------------------|
| EDEC 260 | (3) | Philosophical Foundations |
| EDEC 261 | (3) | Philosophy of Catholic Education |

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) | Educational Media 1 |

Secondary Teaching Methods - English

6 credits:

| | | |
|----------|-----|------------------------------|
| EDES 361 | (3) | Teaching Secondary English 1 |
| EDES 461 | (3) | Teaching Secondary English 2 |

Secondary English Subject Area (54 credits)

Note: Students selecting 18 credits of English as their second 'teachable subject' will take EDES 361 Teaching Secondary English 1 (3 credits) to count as an elective in their program.

Option 1

54 credits distributed as follows:

Required Course (3 credits)

| | | |
|----------|-----|-----------------------------|
| EDES 366 | (3) | Literature for Young Adults |
|----------|-----|-----------------------------|

Complementary 'Language/Linguistics' courses (6 credits)

| | | |
|-----------|-----|---------------------------------------|
| CEAP 250* | (3) | Research Essay & Rhetoric |
| EDEC 203* | (3) | Communication in Education |
| EDSL 305 | (3) | L2 Learning: Classroom Settings |
| EDSL 350 | (3) | Essentials of English Grammar |
| LING 200 | (3) | Introduction to the Study of Language |
| LING 201 | (3) | Introduction to Linguistics |
| LING 355 | (3) | Language Acquisition 1 |

*Note: Students may take either CEAP 250 OR EDEC 203 for credit but not both

Complementary Courses

45 credits selected from the English Department undergraduate complementary course list (www.mcgill.ca/english/undergrad/complementary-courses/) distributed as follows (including at least one course in Shakespeare):

Literature (33 credits)

A minimum of 15 credits must be at the 300 level or higher

Cultural Studies (9 credits)

At least 3 credits must be at the 300 level or higher

Drama/Theatre (3 credits)

Option 2 (54 credits)

54 credits distributed as follows:

Required Course (3 credits)

| | | |
|----------|-----|-----------------------------|
| EDES 366 | (3) | Literature for Young Adults |
|----------|-----|-----------------------------|

Complementary 'Language/Linguistics' courses. (6 credits)

Select 6 credits from the following course list:

| | | |
|-----------|-----|---------------------------------------|
| CEAP 250* | (3) | Research Essay & Rhetoric |
| EDEC 203* | (3) | Communication in Education |
| EDSL 305 | (3) | L2 Learning: Classroom Settings |
| EDSL 350 | (3) | Essentials of English Grammar |
| LING 200 | (3) | Introduction to the Study of Language |
| LING 201 | (3) | Introduction to Linguistics |
| LING 355 | (3) | Language Acquisition 1 |

*Note: Students may take either CEAP 250 OR EDEC 203 for credit but not both

Complementary Courses

27 credits selected from the English Department undergraduate complementary course list (www.mcgill.ca/english/undergrad/complementary-courses/), distributed as follows (including at least one course in Shakespeare):

Literature (18 credits)

A minimum of 6 credits at the 300 level or higher.

Cultural Studies (6 credits)

A minimum of 3 credits at the 300 level or higher

Drama/Theatre (3 credits)

Second "Teachable" Subject Area (18 credits)

18 credits of designated courses in a second "teachable" subject area (e.g., Mathematics, Social Sciences, Science courses, selected in consultation with an advisor).

Students must also take the corresponding 3 credits of Secondary Teaching Methods in for the second "teachable" subject area

Note: this additional Methods course counts as a 3 credit elective in the program.

English as Second "Teachable" Subject Area (18 credits)

Students in the Secondary Mathematics program who select English as their second "teachable" subject area follow the requirements below:

Required Course (3 credits)

EDES 366 (3) Literature for Young Adults

Students in the Secondary Mathematics program must complete three Math prerequisite courses in their Freshman year, MATH 133, MATH 140, and MATH 141.

In addition, students select courses from the recommended list below or other courses in consultation with the Program Adviser. The French Second Language (FRSL) courses suggested require a placement test to determine the appropriate course level.

| | | |
|------------|-----|----------------------------------|
| CEAP 250 | (3) | Research Essay & Rhetoric |
| EDEM 220 | (3) | Contemporary Issues in Education |
| FRSL 101D1 | (3) | Beginners French |
| FRSL 101D2 | (3) | Beginners French |
| 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) | The Study of World Religions 1 |

Required Courses (45 credits)

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 254 | (1) | Second Professional Seminar (Secondary) |
| EDEC 351 | (2) | Third Professional Seminar (Secondary) |
| EDEC 404 | (3) | Fourth Year Professional Seminar (Sec) |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |
| EDFE 351 | (8) | Third Field Experience (Secondary) |
| EDFE 451 | (7) | Fourth Field Experience (Secondary) |
| EDPE 300 | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309 | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses (15 credits)

15 credits selected as described below.

Multicultural Education

3 credits from:

| | | |
|----------|-----|-------------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural Education |
| EDEC 249 | (3) | Global Education and Social Justice |

Philosophy of Education

3 credits from:

| | | |
|----------|-----|----------------------------------|
| EDEC 260 | (3) | Philosophical Foundations |
| EDEC 261 | (3) | Philosophy of Catholic Education |

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) | Educational Media 1 |

Secondary Teaching Methods - Mathematics

6 credits:

Note: Students selecting 18 credits of Secondary Mathematics courses as their other "teachable" subject will take 3 credits of Mathematics Secondary Teaching Methods courses to count as an elective in their program.

| | | |
|----------|-----|----------------------------------|
| EDES 353 | (3) | Teaching Secondary Mathematics 1 |
| EDES 453 | (3) | Teaching Secondary Mathematics 2 |

Secondary Mathematics Subject Ar8 c4 (54425.25 T9(EDES 353)Tj1 0 0 1 2P1 221.949 686.0 0 4ondar628 162.924ondarv0 1 105.426 280.544

27 credits for Secondary Mathematics Option 1 and Option 2 students

Note: Students with Mathematics as their "other teachable subject area" select from the list of "Mathematics Courses for Students in Other Secondary Subject Areas".

| | | |
|----------|-----|---------------------------------------|
| MATH 222 | (3) | Calculus 3 |
| MATH 223 | (3) | Linear Algebra |
| MATH 235 | (3) | Algebra 1 |
| MATH 242 | (3) | Analysis 1 |
| MATH 315 | (3) | Ordinary Differential Equations |
| MATH 323 | (3) | Probability |
| MATH 324 | (3) | Statistics |
| MATH 338 | (3) | History and Philosophy of Mathematics |
| MATH 348 | (3) | Topics in Geometry |

Complementary Mathematics Courses

27 credits from the list below for Secondary Mathematics Option 1 students or

9 credits from the list below for Secondary Mathematics Option 2 students

Note: Students with Mathematics as their "other teachable subject area" select from the list of "Mathematics Courses for Students in Other Secondary Subject Areas".

| | | |
|----------|-----|--|
| COMP 202 | (3) | Foundations of Programming |
| COMP 230 | (3) | Logic and Computability |
| EDTL 520 | (3) | Perspectives on Knowledge in Mathematics and Science |
| MATH 236 | (3) | Algebra 2 |
| 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) | Introduction to 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 Structures 2 |
| MATH 346 | (3) | Number Theory |
| MATH 417 | (3) | Mathematical Programming |
| MATH 423 | (3) | Regression and Analysis of Variance |
| 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 |

Mathematics Courses for Students in Other Secondary Subject Areas

Students in other secondary subject areas selecting Mathematics as their "other teachable subject area" take the following 18 credits.

| | | |
|----------|-----|------------|
| MATH 222 | (3) | Calculus 3 |
|----------|-----|------------|

| | | |
|----------|-----|---------------------------------|
| HIST 215 | (3) | Modern European History |
| RELG 204 | (3) | Judaism, Christianity and Islam |
| RELG 207 | (3) | The Study of World Religions 1 |
| RELG 252 | (3) | Hinduism and Buddhism |

Required Courses (45 credits)

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 254 | (1) | Second Professional Seminar (Secondary) |
| EDEC 351 | (2) | Third Professional Seminar (Secondary) |
| EDEC 404 | (3) | Fourth Year Professional Seminar (Sec) |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| | | Second Field Experience (Secondary) |

Secondary Teaching Methods - Social Sciences

6 credits:

| | | |
|----------|-----|--|
| EDER 372 | (3) | Ethics and Religious Culture (Secondary) |
| EDES 334 | (3) | Teaching Secondary Social Studies 1 |

Secondary Social Sciences - History & Citizenship, Ethics & Religious Culture Subject Area (54 credits)

Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture students complete 54 credits selected in consultation with the Program Adviser with the following specifications:

36 credits of History and Citizenship courses distributed as follows:

9 credits of "Required History" courses

and

27 credits "Complementary History" distributed as follows:

3-9 credits in European History

3-9 credits in Asian, African, American, Latin American, or Ancient History

9 credits at the 300 or 400 level 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.)

And

18 credits chosen from the Ethics and Religious Culture course list as specified below.

Required History

9 credits:

| | | |
|-----------|-----|---------------------------|
| HIST 202 | (3) | Survey: Canada to 1867 |
| HIST 203 | (3) | Survey: Canada since 1867 |
| HIST 303* | (3) | History of Quebec |
| HIST 353* | (3) | History of Montreal |

* Note: Students select either HIST 303 or HIST 353.

Complementary Courses

6-12 credits selected from the following list. Students must select a minimum of 3 credits ECON and a minimum of 3 credits POLI):

| | | |
|----------|-----|---|
| ANTH 338 | (3) | Native Peoples of North America |
| CANS 200 | (3) | Introduction to the Study of Canada |
| ECON 199 | (3) | FYS: Aspects of Globalization |
| ECON 205 | (3) | An Introduction to Political Economy |
| ECON 208 | (3) | Microeconomic Analysis and Applications |
| ECON 209 | (3) | Macroeconomic Analysis and Applications |
| ECON 219 | (3) | Current Economic Problems: Topics |
| ECON 221 | (3) | Economic History |
| ECON 313 | (3) | Economic Development 1 |
| ECON 326 | (3) | Ecological Economics |
| ECON 341 | (3) | Economic History of a World Area |
| ECON 347 | (3) | Economics of Climate Change |
| ENVR 201 | (3) | Society, Environment and Sustainability |
| ENVR 203 | (3) | Knowledge, Ethics and Environment |

| | | |
|----------|-----|---|
| POLI 211 | (3) | Comparative Government and Politics |
| 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:

* Note: Either EDER 309 or RELG 204 may be selected but not both.

| | | |
|-----------|-----|---------------------------------|
| EDER 309* | (3) | The Religious Quest |
| RELG 204* | (3) | Judaism, Christianity and Islam |
| RELG 207 | (3) | The Study of World Religions 1 |
| RELG 252 | (3) | Hinduism and Buddhism |

6 credits from:

| | | |
|----------|-----|------------------------------------|
| EDER 209 | (3) | Search for Authenticity |
| EDER 395 | (3) | Moral Values and Human Action |
| EDER 461 | (3) | Society and Change |
| EDER 473 | (3) | Living with Insight |
| EDER 494 | (3) | Ethics in Practice |
| PHIL 230 | (3) | Introduction to Moral Philosophy 1 |
| PHIL 237 | (3) | Contemporary Moral Issues |

6 credits from:

| | | |
|----------|-----|--|
| CATH 200 | (3) | Introduction to Catholicism |
| EDER 252 | (3) | Understanding and Teaching Jewish Life |
| EDER 319 | (3) | Teaching the Holocaust |
| EDER 394 | (3) | Philosophy of God |

Electives (6 credits)

6 credits:

9.8 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography (120 credits)

Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Geography program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education Program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of academic studies, professional studies, and school-based practicum components. All of this is supported by studies in pedagogy, curriculum, and educational foundations.

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 Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in 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 F

| | | |
|----------|-----|---|
| 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 309 | (3) | Geography of Canada |
| GEOG 311 | (3) | Economic Geography |
| GEOG 331 | (3) | Urban Social Geography |

Note: In consultation with the Program Adviser, students may choose their Geography courses from those that comprise the B.A. Minor Concentration Geography program.

Electives (6 credits)

6 credits

9.9 Bachelor of Education (B.Ed.) - Secondary Science and Technology (120 credits)

The Bachelor of Education (B.Ed.) - Secondary Science and Technology program requires 120 credits and leads to teacher certification. Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of Freshman courses (in addition to the 120 credits for the program) for a total of 150 credits.

The aim of the B.Ed. Secondary Education program is to prepare strong beginning teachers for the secondary school level. This integrated program consists of acadthe Modern

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.

| | | |
|------------|-----|----------------------------------|
| CEAP 250 | (3) | Research Essay & Rhetoric |
| EDEM 220 | (3) | Contemporary Issues in Education |
| FRSL 101D1 | (3) | Beginners French |
| FRSL 101D2 | (3) | Beginners French |
| FRSL 207D1 | (3) | Elementary French 01 |
| FRSL 207D2 | (3) | Elementary French 01 |
| FRSL 211D1 | (3) | Oral and Written French 1 |
| FRSL 211D2 | (3) | Oral and Written French 1 |

Required Courses (45 credits)

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 254 | (1) | Second Professional Seminar (Secondary) |
| EDEC 351 | (2) | Third Professional Seminar (Secondary) |
| EDEC 404 | (3) | Fourth Year Professional Seminar (Sec) |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |
| | | Third Field Experience (Secondary) |

(3) Measurement and Evaluation

- 9 credits minimum from courses on the Living World
- 9 credits minimum from courses on Earth and Space
- 9 credits minimum from courses on the Material World
- 6 credits minimum from courses on the Technological World

15 credits of complementary courses either spread across the four subjects areas or concentrated in one subject area. Students who plan to teach Grade 11 Chemistry or Physics should concentrate their 15 complementary credits in the Material World.

All students need to plan their course selections with attention to the prerequisites.

Statistics

3 credits:

| | | |
|----------|-----|----------------------------|
| MATH 203 | (3) | Principles of Statistics 1 |
|----------|-----|----------------------------|

History of Science

3 credits:

| | | |
|----------|-----|--|
| EDTL 520 | (3) | Perspectives on Knowledge in Mathematics and Science |
|----------|-----|--|

The Living World - Required

6 credits:

* Note: Students select either BIOL 200 or LSCI 202, but not both.

| | | |
|-----------|-----|---------------------------------|
| BIOL 200* | (3) | Molecular Biology |
| BIOL 206 | (3) | Methods in Biology of Organisms |
| LSCI 202* | (3) | Molecular Cell Biology |

The Living World - Complementary

Students select a minimum of 3 credits to a maximum of 15 credits from courses on the Living World in the areas of:

Cell and Molecular Biology

Human and Organismal Biology

Populations, Ecosystems, and Evolution

The Living World - 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 |

The Living World - Human and Organismal Biology

| | | |
|----------|-----|------------------------|
| BIOL 205 | (3) | Biology of Organisms |
| EDKP 292 | (3) | Nutrition and Wellness |
| EDKP 395 | (3) | Exercise Physiology |
| NUTR 207 | (3) | Nutrition and Health |
| NUTR 307 | (3) | Human Nutrition |
| PHGY 209 | (3) | Mammalian Physiology 1 |
| PHGY 210 | (3) | Mammalian Physiology 2 |

The Living World - 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) | Vertebrate Evolution |
| ENVB 305 | (3) | Population & Community Ecology |
| EPSC 334 | (3) | Invertebrate Paleontology |

Earth and Space - Complementary

Students select a minimum of 9 credits to a maximum of 24 credits from courses on Earth and Space with the following specifications:

a minimum of 6 to a maximum of 21 credits from Earth and Space

a minimum of 3 to a maximum of 18 credits from Environment

| | | |
|----------|-----|---|
| 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 203 | (3) | Structural Geology |
| 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 320 | (3) | Elementary Earth Physics |
| EPSC 330 | (3) | Earthquakes and Earth Structure |
| EPSC 350 | (3) | Tectonics |
| ESYS 200 | (3) | Earth System Processes |
| ESYS 300 | (3) | Investigating the Earth System |
| ESYS 301 | (3) | Earth System Modelling |
| GEOG 272 | (3) | Earth's Changing Surface |
| GEOG 321 | (3) | Climatic Environments |
| PHYS 214 | (3) | Introductory Astrophysics |

Earth and Space - Environment

| | | |
|----------|-----|------------------------|
| ENVR 200 | (3) | The Global Environment |
|----------|-----|------------------------|

| | | |
|----------|-----|---|
| ENVR 201 | (3) | Society, Environment and Sustainability |
| ENVR 203 | (3) | Knowledge, Ethics and Environment |

En

| | | |
|----------|-----|--|
| PHYS 258 | (3) | Experimental Methods 2 |
| PHYS 271 | (3) | Introduction to Quantum Physics |
| PHYS 328 | (3) | Electronics |
| PHYS 331 | (3) | Topics in Classical Mechanics |
| PHYS 333 | (3) | Thermal and Statistical Physics |
| PHYS 339 | (3) | Measurements Laboratory in General Physics |
| PHYS 340 | (3) | Majors Electricity and Magnetism |
| PHYS 342 | (3) | Majors Electromagnetic Waves |
| PHYS 432 | (3) | Physics of Fluids |
| PHYS 434 | (3) | Optics |
| PHYS 436 | (3) | Modern Physics |
| PHYS 439 | (3) | Majors Laboratory in Modern Physics |
| PHYS 446 | (3) | Majors Quantum Physics |

The Technological World

Students select a minimum of 6 credits to a maximum of 15 credits from courses on the Technological World.

* 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.

| | | |
|------------|-----|-------------------------------------|
| 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 |
| PHYS 334 | (3) | Advanced Materials |

9.10 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Chemistry for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) 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 Major Concentration Biology - Cell/Molecular with Minor Chemistry is one of the nine variations of the program and allows students to focus their Science degree in Cell/Molecular Biology with a subspecialization in Chemistry.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Biology - Cell/Molecular

- 18 credits of Minor Chemistry

- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both de

Calculus A

| | | |
|-----------|-----|-------------------------------------|
| 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) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

| | | |
|-----------|-----|-------------------------------------|
| EDEC 233* | (3) | First Nations and Inuit Education |
| EDEC 248* | (3) | Multicultural Education |
| EDEC 249* | (3) | Global Education and Social Justice |

3 credits, one of the two following courses:

| | | |
|-----------|-----|----------------------------------|
| EDEC 260* | (3) | Philosophical Foundations |
| EDEC 261* | (3) | Philosophy of Catholic Education |

Major Concentration Biology - Cell/Molecular (36 credits)

The Major Concentration Biology - Cell/Molecular is a planned sequence of courses designed to permit a degree of specialization in cell/molecular biology.

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

25 credits selected as follows:

| | | |
|----------|-----|---------------------------------------|
| BIOL 200 | (3) | Molecular Biology |
| BIOL 201 | (3) | Cell Biology and Metabolism |
| BIOL 202 | (3) | Basic Genetics |
| BIOL 205 | (3) | Biology of Organisms |
| BIOL 215 | (3) | Introduction to Ecology and Evolution |
| BIOL 300 | (3) | Molecular Biology of the Gene |
| BIOL 301 | (4) | Cell and Molecular Laboratory |
| BIOL 303 | (3) | Developmental Biology |

Complementary Courses

At least 11 credits selected from:

| | | |
|----------|-----|--------------------------------|
| BIOL 306 | (3) | Neural Basis of Behaviour |
| BIOL 313 | (3) | Eukaryotic Cell Biology |
| BIOL 314 | (3) | Molecular Biology of Oncogenes |
| BIOL 370 | (3) | Human Genetics Applied |

| | | |
|----------|-----|----------------------------|
| BIOL 373 | (3) | Biometry |
| BIOL 413 | (1) | Directed Reading |
| BIOL 568 | (3) | Topics on the Human Genome |
| BIOL 575 | (3) | Human Biochemical Genetics |

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* Note: denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

| | | |
|-----------|-----|--|
| CHEM 203 | (3) | Survey of Physical Chemistry |
| CHEM 212* | (4) | Introductory Organic Chemistry 1 |
| CHEM 222* | (4) | Introductory Organic Chemistry 2 |
| CHEM 253 | (1) | Introductory Physical Chemistry 1 Laboratory |
| CHEM 281 | (3) | Inorganic Chemistry 1 |
| CHEM 287 | (2) | Introductory Analytical Chemistry |
| CHEM 297 | (1) | Introductory Analytical Chemistry Laboratory |

Additional Science Courses

15 credits selected as follows:

12 credits:

| | | |
|----------|-----|----------------------------|
| BIOL 210 | (3) | Perspectives of Science |
| CHEM 381 | (3) | Inorganic Chemistry 2 |
| MATH 203 | (3) | Principles of Statistics 1 |
| MATH 222 | (3) | Calculus 3 |

plus 3 credits, one of:

| | | |
|----------|-----|---------------------------------|
| 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 |

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

9.11 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) 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 Major Concentration Biology - Cell/Molecular with Minor Physics is one of the nine variations of the program and allows students to focus their Science de

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

| | | |
|-----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247* | (3) | Policy Issues in Quebec Education |
| EDEC 254 | (1) | Second Professional Seminar (Secondary) |
| 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 (Secondary) |
| EDES 435 | (3) | Teaching Secondary Science 2 |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |
| EDFE 351 | (8) | Third Field Experience (Secondary) |
| EDFE 451 | (7) | Fourth Field Experience (Secondary) |
| EDPE 300* | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309* | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

| | | |
|-----------|-----|-------------------------------------|
| EDEC 233* | (3) | First Nations and Inuit Education |
| EDEC 248* | (3) | Multicultural Education |
| EDEC 249* | (3) | Global Education and Social Justice |

3 credits, one of the two following courses:

| | | |
|-----------|-----|----------------------------------|
| EDEC 260* | (3) | Philosophical Foundations |
| EDEC 261* | (3) | Philosophy of Catholic Education |

| | | |
|-----------|-----|---------------------------------------|
| BIOL 200 | (3) | Molecular Biology |
| BIOL 201 | (3) | Cell Biology and Metabolism |
| BIOL 202 | (3) | Basic Genetics |
| BIOL 205 | (3) | Biology of Organisms |
| BIOL 215 | (3) | Introduction to Ecology and Evolution |
| BIOL 300 | (3) | Molecular Biology of the Gene |
| BIOL 301 | (4) | Cell and Molecular Laboratory |
| BIOL 303 | (3) | Developmental Biology |
| CHEM 212* | (4) | Introductory Organic Chemistry 1 |

Complementary Courses

At least 7 credits selected from:

| | | |
|----------|-----|--------------------------------|
| BIOL 306 | (3) | Neural Basis of Behaviour |
| BIOL 313 | (3) | Eukaryotic Cell Biology |
| BIOL 314 | (3) | Molecular Biology of Oncogenes |
| BIOL 370 | (3) | Human Genetics Applied |
| BIOL 373 | (3) | Biometry |
| BIOL 413 | (1) | Directed Reading |
| BIOL 568 | (3) | Topics on the Human Genome |
| BIOL 575 | (3) | Human Biochemical Genetics |

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Physics (18 credits)

Required Course

3 credits

| | | |
|----------|-----|------------------------|
| PHYS 257 | (3) | Experimental Methods 1 |
|----------|-----|------------------------|

Complementary Courses

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 214 | (3) | Introductory Astrophysics |
| PHYS 224 | (3) | Physics of Music |
| PHYS 260 | (3) | Modern Physics and Relativity |
| | | Introduction to Quantum Ph |

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 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/sousa>. 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 must 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 Complementar

| | | |
|----------|-----|------------|
| 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:

Introductory Ph

| | | |
|-----------|-----|----------------------------------|
| EDPI 309* | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

| | | |
|-----------|-----|-------------------------------------|
| EDEC 233* | (3) | First Nations and Inuit Education |
| EDEC 248* | (3) | Multicultural Education |
| EDEC 249* | (3) | Global Education and Social Justice |

3 credits, one of the two following courses:

| | | |
|-----------|-----|----------------------------------|
| EDEC 260* | (3) | Philosophical Foundations |
| EDEC 261* | (3) | Philosophy of Catholic Education |

Major Concentration Biology - Organismal (36 credits)

The Major Concentration Biology - Organismal is a planned sequence of courses designed to permit a degree of specialization in organismal biology.

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

24 credits

| | | |
|----------|-----|---------------------------------------|
| BIOL 200 | (3) | Molecular Biology |
| BIOL 201 | (3) | Cell Biology and Metabolism |
| BIOL 202 | (3) | Basic Genetics |
| BIOL 205 | (3) | Biology of Organisms |
| BIOL 206 | (3) | Methods in Biology of Organisms |
| BIOL 215 | (3) | Introduction to Ecology and Evolution |
| BIOL 304 | (3) | Evolution |
| BIOL 308 | (3) | Ecological Dynamics |

Complementary Courses

12 credits selected from:

| | | |
|----------|-----|--------------------------------|
| BIOL 303 | (3) | Developmental Biology |
| BIOL 305 | (3) | Animal Diversity |
| BIOL 306 | (3) | Neural Basis of Behaviour |
| BIOL 307 | (3) | Behavioural Ecology |
| BIOL 310 | (3) | Biodiversity and Ecosystems |
| BIOL 331 | (3) | Ecology/Behaviour Field Course |
| BIOL 342 | (3) | Marine Biology |
| BIOL 350 | (3) | Insect Biology and Control |

| | | |
|----------|-----|-------------------------|
| BIOL 373 | (3) | Biometry |
| BIOL 427 | (3) | Herpetology |
| BIOL 435 | (3) | Natural Selection |
| BIOL 441 | (3) | Biological Oceanography |
| BIOL 465 | (3) | Conservation Biology |

or other appropriate course at the 300 level or higher with the permission of an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* Note: denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

| | | |
|----------|-----|----------------------------------|
| CHEM 203 | (3) | Survey of Physical Chemistry |
| | y | Introductory Organic Chemistry 1 |

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Organismal with Minor Physics for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) 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 Major Concentration Biology - Organismal with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Organismal Biology with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

70 credits of Science Component consisting of:

- 37 credits of Major Concentration Biology - Organismal

- 18 credits of Minor Physics

- 15 credits of Additional Science Courses

5 credits of Electives, of which at least 2 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 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 (SOUA) to obtain advice and approval of their course selection. Full details are available on the [ence j1665.c 420 fir1Tj67.52 an](http://www.mcgill.ca/scienceforteachers/)

| | | |
|-----------|-----|--|
| BIOL 111 | (3) | Principles: Organismal Biology |
| BIOL 112 | (3) | Cell and Molecular Biology |
| CHEM 110 | (4) | General Chemistry 1 |
| CHEM 115* | (4) | Accelerated General Chemistry: Giants in Science |
| CHEM 120* | (4) | General Chemistry 2 |
| COMP 202 | (3) | Foundations of Programming |
| ESYS 104 | (3) | The Earth System |
| MATH 133 | (3) | Linear Algebra and Geometry |
| PSYC 100 | (3) | Introduction to Psychology |

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/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman Year.

EDEC 201 (1) First Year Professional Seminar

| | | |
|----------|-----|-----------------|
| 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 214 | (3) | Introductory Astrophysics |
| PHYS 224 | (3) | Physics of Music |
| PHYS 260 | (3) | Modern Physics and Relativity |
| PHYS 271 | (3) | Introduction to Quantum Physics |

One of:

| | | |
|----------|-----|-----------------------------------|
| PHYS 340 | (3) | Majors Electricity and Magnetism |
| PHYS 350 | (3) | Honours Electricity and Magnetism |

Additional Science Courses (15 credits)

| | | |
|----------|-----|----------------------------|
| BIOL 210 | (3) | Perspectives of Science |
| MATH 203 | (3) | Principles of Statistics 1 |
| MATH 222 | (3) | Calculus 3 |
| MATH 223 | (3) | Linear Algebra |
| MATH 314 | (3) | Advanced Calculus |

Electives (5 credits)

5 credits, of which at least 2 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

9.14 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Biology for Teachers (135 credits)

Note: New students are no longer 96iC Tm(MA)Tj1 0 ah 1 157.175 237clP3 nd Magnethiis pro2.5m59.18-0F1 3 0 0Ne

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Chemistry

- 24 credits of the Minor Biology

- 9 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 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 (SOUA) to obtain advice and approval of their course selection. Full details are available on the SOUSA website at <http://www.mcgill.ca/science/sousa>. 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 must 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 must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at <http://www>

The Major Concentration Chemistry with Minor Physics is one of the nine variations of the program and allows students to focus their Science degree in Chemistry with a subspecialization in Physics.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of the Major Concentration Chemistry

- 18 credits of the Minor Physics

- 15 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcgill.ca/scienceforteachers/>.

B.Sc. Freshman Program

Students who enter Science in U0 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/sousa>. 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 must 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 must be aware of the department specific requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/new_students/u0/bsc_freshman/specific/.
4. The maximum number of courses per term, required, complementary, and elective, is five.

List of Approved Freshman Science Courses

Select the approved courses according to the instructions above.

Note:

* CHEM 115 (not open to students who are taking or have taken CHEM 110 or CHEM 120)

* CHEM 120 (not open to students who have taken CHEM 115)

| | | |
|-----------|-----|--|
| BIOL 111 | (3) | Principles: Organismal Biology |
| BIOL 112 | (3) | Cell and Molecular Biology |
| CHEM 110 | (4) | General Chemistry 1 |
| CHEM 115* | (4) | Accelerated General Chemistry: Giants in Science |
| CHEM 120* | (4) | General Chemistry 2 |
| COMP 202 | (3) | Foundations of Programming |

| | | |
|----------|-----|-----------------------------|
| ESYS 104 | (3) | The Earth System |
| MATH 133 | (3) | Linear Algebra and Geometry |
| PSYC 100 | (3) | Introduction to Psychology |

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.F1r.415 Tw-0.017 Tc1>

| | | |
|-----------|-----|---|
| 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 (Secondary) |
| EDES 435 | (3) | Teaching Secondary Science 2 |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |
| EDFE 351 | (8) | Third Field Experience (Secondary) |
| EDFE 451 | (7) | Fourth Field Experience (Secondary) |
| EDPE 300* | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309* | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

| | | |
|-----------|-----|-------------------------------------|
| EDEC 233* | (3) | First Nations and Inuit Education |
| EDEC 248* | (3) | Multicultural Education |
| EDEC 249* | (3) | Global Education and Social Justice |

3 credits, one of the two following courses:

| | | |
|-----------|-----|----------------------------------|
| EDEC 260* | (3) | Philosophical Foundations |
| EDEC 261* | (3) | Philosophy of Catholic Education |

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 is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

18 credits selected as follo 0 1 264.967 474.801 0S 1 0 8.3 Tf1 0 0d63 235.482 Tm j1 0 0 1d to per124.35 250.062 T6m(71 0 0d63 235.elobua2 T6m(71 0 0d63 235.elo

CHEM 297 (1) Introductory Analytical Chemistry Laboratory

Complementary Courses

18 credits selected from:

| | | |
|----------|-----|--|
| CHEM 219 | (3) | Introduction to Atmospheric Chemistry |
| CHEM 263 | (1) | Introductory Physical Chemistry 2 Laboratory |
| CHEM 302 | (3) | Introductory Organic Chemistry 3 |
| CHEM 334 | (3) | Advanced Materials |
| CHEM 367 | (3) | Instrumental Analysis 1 |
| CHEM 381 | (3) | Inorganic Chemistry 2 |
| CHEM 382 | (3) | Organic Chemistry: Natural Products |
| CHEM 531 | (3) | Chemistry of Inorganic Materials |
| CHEM 571 | (3) | Polymer Synthesis |
| CHEM 582 | (3) | Supramolecular Chemistry |
| CHEM 591 | (3) | Bioinorganic Chemistry |

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257 (3) Experimental Methods 1

Complementary Courses

15 credits 1 81 Tm50S/c3.52 360.344 Tm(15 crS/c3.uogT74.81 Tm(sesIredits 1 81 T021 1(15 crS/c3.uogT74.81 Tm(sesIredit4dit4dit4dit4s:9 Tm(se)Tj/F1 8.332.76it

One of:

| | | |
|----------|-----|-----------------------------------|
| PHYS 340 | (3) | Majors Electricity and Magnetism |
| PHYS 350 | (3) | Honours Electricity and Magnetism |

Additional Science Courses (15 credits)

| | | |
|----------|-----|----------------------------|
| BIOL 210 | (3) | Perspectives of Science |
| MATH 203 | (3) | Principles of Statistics 1 |
| MATH 222 | (3) | Calculus 3 |
| MATH 223 | (3) | Linear Algebra |
| MATH 314 | (3) | Advanced Calculus |

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Electives.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

9.16 Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers (135 credits)

Note: New students are no longer being admitted to this program.

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Physics with Minor Biology for Teachers is jointly offered by the Faculty of Science and the Faculty of Education. Separately, the Bachelor of Science degree requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Education degree requires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such a way that students complete 135 (or 165 credits) to fulfil all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) 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 Major Concentration Physics with Minor Biology is one of the nine variations of the program and allows students to focus their Science degree in Physics with a subspecialization in Biology.

To fulfil the requirements for graduation for the Concurrent Bachelor of Science and Bachelor of Education, the 135 credits (or 165 credits for students admitted without basic sciences) include the following:

(30 credits of Science Freshman Program (for students admitted without basic sciences))

60 credits of Education Component

69 credits of Science Component consisting of:

- 36 credits of Major Concentration Physics
- 24 credits of Minor Biology
- 9 credits of Additional Science Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www.mcg.ca> or <http://www>

General Math and Science Breadth

Six of the Freshman courses must 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.

3se

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/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from other faculties.

Education Component (60 credits)

60 credits of Education Component, consisting of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

The English Language Requirement (EDEC 215) must be taken in the Fall semester following the Freshman year.

| | | |
|-----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247* | (3) | Policy Issues in Quebec Education |
| EDEC 254 | (1) | Second Professional Seminar (Secondary) |
| 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 (Secondary) |
| EDES 435 | (3) | Teaching Secondary Science 2 |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |
| EDFE 351 | (8) | Third Field Experience (Secondary) |
| EDFE 451 | (7) | Fourth Field Experience (Secondary) |
| EDPE 300* | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309* | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

| | | |
|-----------|-----|-------------------------------------|
| EDEC 233* | (3) | First Nations and Inuit Education |
| EDEC 248* | (3) | Multicultural Education |
| EDEC 249* | (3) | Global Education and Social Justice |

3 credits, one of the two following courses:

| | | |
|-----------|-----|----------------------------------|
| EDEC 260* | (3) | Philosophical Foundations |
| EDEC 261* | (3) | Philosophy of Catholic Education |

Major Concentration Physics (36 credits)

The Major Concentration Physics is a planned sequence of courses designed to permit a degree of specialization in this discipline.

Required Courses*

30 credits selected as follows:

* Note: Required courses taken at CEGEP or elsewhere that are not credited toward the Concurrent B.Sc. and 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.

| | | |
|----------|-----|----------------------------------|
| MATH 222 | (3) | Calculus 3 |
| MATH 223 | (3) | Linear Algebra |
| MATH 314 | (3) | Advanced Calculus |
| MATH 315 | (3) | Ordinary Differential Equations |
| PHYS 230 | (3) | Dynamics of Simple Systems |
| PHYS 232 | (3) | Heat and Waves |
| PHYS 257 | (3) | Experimental Methods 1 |
| PHYS 333 | (3) | Thermal and Statistical Physics |
| PHYS 340 | (3) | Majors Electricity and Magnetism |
| PHYS 446 | (3) | Majors Quantum Physics |

Complementary Courses

6 credits selected from:

| | | |
|----------|-----|--------------------------------|
| PHYS 214 | (3) | Introductory Astrophysics |
| PHYS 224 | (3) | Physics of Music |
| PHYS 241 | (3) | Signal Processing |
| PHYS 258 | (3) | Experimental Methods 2 |
| PHYS 334 | (3) | Advanced Materials |
| PHYS 534 | (3) | Nanoscience and Nanotechnology |

or any 300- or 400-level course approved by an adviser.

Minor Biology (24 credits)

24-25 credits for the Minor Biology selected as follows:

15 credits of required courses

9-10 credits of complementary courses

Required Courses

15 credits

| | | |
|----------|-----|---------------------------------------|
| BIOL 200 | (3) | Molecular Biology |
| BIOL 201 | (3) | Cell Biology and Metabolism |
| BIOL 202 | (3) | Basic Genetics |
| BIOL 205 | (3) | Biology of Organisms |
| BIOL 215 | (3) | Introduction to Ecology and Evolution |

Complementary Courses

6 credits of Electives, of which at least 3 credits must be Science Electives, depending on how many credits count toward both the B.Sc. and the B.Ed. degrees.

For details on the counting of credits toward both degrees (double-counting) visit the program website <http://www>

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/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other f

| | | |
|-----------|-----|----------------------------------|
| EDPE 300* | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309* | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

| | | |
|----------|-----|--------------------------------|
| PHYS 334 | (3) | Advanced Materials |
| PHYS 534 | (3) | Nanoscience and Nanotechnology |

or any 300- or 400-level course approved by an adviser.

Minor Chemistry (18 credits)

Required Courses

18 credits selected as follows:

* denotes courses with CEGEP equivalents.

Substitutions for these by more advanced courses may be made at the discretion of the Adviser.

| | | |
|-----------|-----|--|
| CHEM 203 | (3) | Survey of Physical Chemistry |
| CHEM 212* | (4) | Introductory Organic Chemistry 1 |
| CHEM 222* | (4) | Introductory Organic Chemistry 2 |
| CHEM 253 | (1) | Introductory Physical Chemistry 1 Laboratory |
| CHEM 281 | (3) | Inorganic Chemistry 1 |
| CHEM 287 | (2) | Introductory Analytical Chemistry |
| CHEM 297 | (1) | Introductory Analytical Chemistry Laboratory |

Additional Science Courses (15 credits)

15 credits selected as follows:

9 credits

| | | |
|----------|-----|----------------------------|
| BIOL 210 | (3) | Perspectives of Science |
| CHEM 381 | (3) | Inorganic Chemistry 2 |
| MATH 203 | (3) | Principles of Statistics 1 |

plus 3 credits, one of:

| | | |
|----------|-----|---------------------------------|
| 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 |

plus 3 credits, one additional Physics (PHYS) course approved by the Ph965918.683f whicT 1 182.289 5m8034118.683f whiceachers is jointlj1 1 182.289 5m.68HEM 8

Graduates of the B.Ed. degree are recommended by the University to the Quebec Ministère de l'É

| | | |
|----------|-----|-----------------------------|
| ESYS 104 | (3) | The Earth System |
| MATH 133 | (3) | Linear Algebra and Geometry |
| PSYC 100 | (3) | Introduction to Psychology |

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/sousa/new_students/u0/bsc_freshman/approved/. Certain courses offered by other faculties may also be taken, but some restrictions apply.

Consult the SOUSA website at http://www.mcgill.ca/science/sousa/continuing_students/bsc/outside/ for more information about taking courses from otherut taking cour

| | | |
|-----------|-----|---|
| EDEC 351 | (2) | Third Professional Seminar (Secondary) |
| EDEC 404 | (3) | Fourth Year Professional Seminar (Sec) |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| EDES 353 | (3) | Teaching Secondary Mathematics 1 |
| EDES 453 | (3) | Teaching Secondary Mathematics 2 |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 254 | (3) | Second Field Experience (Secondary) |
| EDFE 351 | (8) | Third Field Experience (Secondary) |
| EDFE 451 | (7) | Fourth Field Experience (Secondary) |
| EDPE 300* | (3) | Educational Psychology |
| EDPE 304 | (3) | Measurement and Evaluation |
| EDPI 309* | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses

6 credits selected as follows:

* Note: The courses marked with an asterisk are counted toward both degrees. They will count as "electives" for the B.Sc. degree, although a grade of "C" or better is required.

3 credits, one of the three following courses:

| | | |
|-----------|-----|-------------------------------------|
| EDEC 233* | (3) | First Nations and Inuit Education |
| EDEC 248* | (3) | Multicultural Education |
| EDEC 249* | (3) | Global Education and Social Justice |

3 credits, one of the two following courses:

| | | |
|-----------|-----|----------------------------------|
| EDEC 260* | (3) | Philosophical Foundations |
| EDEC 261* | (3) | Philosophy of Catholic Education |

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 for the program.

| | | |
|----------|-----|-----------------------------|
| MATH 133 | (3) | Linear Algebra and Geometry |
| MATH 140 | (3) | Calculus 1 |
| MATH 141 | (4) | Calculus 2 |

Required Courses

27 credits

Where appropriate, Honours courses may be substituted for equivalent Major courses.

* Students select either MATH 249 or MATH 316 but not both.

| | | |
|----------|-----|------------|
| 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 selected with the following specifications:

12 credits specifically required of students in the Concurrent B.Sc. and B.Ed. Major Mathematics:

| | | |
|----------|-----|---------------------------------------|
| COMP 202 | (3) | Foundations of Programming |
| MATH 324 | (3) | Statistics |
| MATH 338 | (3) | History and Philosophy of Mathematics |
| MATH 348 | (3) | Topics in Geometry |

at least 3 credits from:

| | | |
|----------|-----|-----------------------|
| MATH 317 | (3) | Numerical Analysis |
| MATH 335 | (3) | Computational Algebra |
| MATH 340 | (3) | Discrete Structures 2 |

12 credits from:

It is highly recommended that students include MATH 318 and MATH 346 in their complementary courses.

| | | |
|----------|-----|--|
| MATH 204 | (3) | Principles of Statistics 2 |
| MATH 318 | (3) | Mathematical Logic |
| MATH 319 | (3) | Introduction to Partial Differential Equations |
| MATH 320 | (3) | Differential Geometry |
| MATH 326 | (3) | Nonlinear Dynamics and Chaos |
| MATH 327 | (3) | Matrix Numerical Analysis |
| MATH 329 | (3) | Theory of Interest |
| MATH 346 | (3) | Number Theory |
| MATH 352 | (1) | Problem Seminar |
| MATH 407 | (3) | Dynamic Programming |
| MATH 410 | (3) | Majors Project |
| MATH 417 | (3) | Mathematical Programming |
| MATH 423 | (3) | Regression and Analysis of Variance |
| MATH 430 | (3) | Mathematical Finance |
| MATH 447 | (3) | Introduction to Stochastic Processes |
| MATH 523 | (4) | Generalized Linear Models |
| MATH 525 | (4) | Sampling Theory and Applications |

In consultation with an adviser, 3 of the 12 credits may be selected from other MATH courses or related disciplines.

Electives (21 credits)

21 credits of electives, of which at least 18 credits must be Science Electives chosen in consultation with the Science Adviser.

The electives must be chosen in such a way that the credit counts needed for graduation are satisfied.

9.19 Concurrent Bachelor of Music (B.Mus.) - Major Music Education and Bachelor of Education (B.Ed.) - Music Elementary and Secondary (137 credits)

The Bachelor of Music (B.Mus.) - Major Music Education, when offered concurrently with the The Bachelor of Education - Major Music Elementary and

MUHL 286 (3) Critical Thinking About Music

Performance

6 credits:

MUIN 280 (3) BMus Practical Lessons 3
 MUIN 281 (3) BMus Practical Lessons 4
 MUIN 283 (0) BMus Concentration Final Examination

Complementary Music Components (21 credits)

21 credits of complementary Music courses distributed as follows:

9 credits of Music Education

2 credits of Musicianship

6 credits of Music History

4 credits of Performance

Music Education

3 credits, one of:

MUIT 201 (3) String Techniques
 MUIT 250 (3) Guitar Techniques

3 credits, one of:

MUCT 315 (3) Choral Conducting 1
 MUIT 315 (3) Instrumental Conducting

3 credits, select EDEA 362 or any course with a prefix of MUIT or MUGT.

EDEA 362 (3) Movement, Music and Communication

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 Winds |
| MUEN 592 | (2) | Chamber Jazz Ensemble |
| MUEN 593 | (2) | Choral Ensembles |
| MUEN 594 | (2) | Contemporary Music Ensemble |
| MUEN 597 | (2) | Orchestral Ensembles |

Electives (12 credits)

9 credits of free electives

3 credits of non-music electives

Required Education Courses (45 credits)

* Note: Students take either EDEE 355 or EDPE 304, but not both.

| | | |
|-----------|-----|---------------------------------------|
| EDEA 206 | (1) | 1st Year Professional Seminar |
| 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 Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEE 355* | (3) | Classroom-based Evaluation |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| 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 |
| EDPE 304* | (3) | Measurement and Evaluation |
| EDPI 309 | (3) | Exceptional Students |

Complementary Education Courses (10 credits)

10 credits distributed as follows:

3 credits from:

| | | |
|----------|-----|-------------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural Education |
| EDEC 249 | (3) | Global Education and Social Justice |

1 credit from:

| | | |
|----------|-----|---|
| EDEC 253 | (1) | Second Professional Seminar (Kindergarten/Elementary) |
|----------|-----|---|

EDEC 254 (1) Second Professional Seminar (Secondary)

3 credits from:

EDEC 260 (3) Philosophical Foundations

EDEC 261 (3) Philosophy of Catholic Education

3 credits from:

EDEC 262 (3) Media, Technology and Education

EDPT 200 (3) Integrating Educational Technology in Classrooms

EDPT 204 (3) Educational Media 1

MUGT 301 (3) Technology and Media for Music Education

9.19.1 Admissions to the Concurrent Bachelor of Music (Major Music Education) and Bachelor of Education in Music Program

Applicants without a completed Bachelor of Music degree who wish to pursue a teacher education degree specializing in Music should apply to the Concurrent Bachelor of Music (Music Education)/Bachelor of Education in Music program. Students who have partially completed a Bachelor of Music program are eligible to apply for Advanced Standing in the Concurrent program.

Application to the Concurrent B.Mus./B.Ed. program may be made online at www.mcgill.ca/applying. Information is available on that site or may be obtained from:

Admissions Office
McGill University
Schulich School of Music
555 Sherbrooke Street West
Montreal, QC H3A 1E3
Telephone: 514-398-4546

Those who have completed a Bachelor of Music degree may apply for Advanced Standing in the Bachelor of Education in Music program in the Faculty of Education. Application to the Bachelor of Education in Music may be made online at www.mcgill.ca/applying. Information is available on that site or may be obtained from:

Enrolment Services
McGill University
Service Point
3415 McTavish Street
Montreal, QC H3A 0C8
Telephone: 514-398-7878
Fax: 514-398-5544

Program details are available from:

Professor Caroline Riches, Program Director
Telephone: 514-398-5793
Department of Integrated Studies in Education
Telephone: 514-398-4527

9.20 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 for Quebec certification to the Quebec Ministère

| | | |
|----------|-----|---|
| EDER 360 | (2) | Ethics and Religious Culture (K/Elementary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 256 | (3) | Second Field Experience (Kindergarten/Elementary) |
| EDFE 306 | (8) | Third Field Experience (Kindergarten/Elementary) |
| EDFE 406 | (7) | Fourth Field Experience (K/Elem) |
| EDPE 300 | (3) | Educational Psychology |
| EDPI 309 | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

Complementary Courses (18 credits)

18 credits of courses selected as described below.

Multicultural Education

3 credits from:

| | | |
|----------|-----|-------------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural Education |
| EDEC 249 | (3) | Global Education and Social Justice |

Philosophy of Education

3 credits from:

| | | |
|----------|-----|----------------------------------|
| EDEC 260 | (3) | Philosophical Foundations |
| EDEC 261 | (3) | Philosophy of Catholic Education |

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) | Educational Media 1 |

Ethics, Values, or Religion

3 credits from:

| | | |
|----------|-----|--------------------------------------|
| EDER 309 | (3) | The Religious Quest |
| RELG 204 | (3) | Judaism, Christianity and Islam |
| RELG 207 | (3) | The Study of World Religions 1 |
| 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 - Ph

| | | |
|----------|-----|--------------------------------|
| ENGL 200 | (3) | Survey of English Literature 1 |
| ENGL 201 | (3) | Survey of English Literature 2 |
| ENGL 215 | (3) | Introduction to Shakespeare |
| | (3) | American Literature 1 |

| | | |
|-----------|-----|--------------------------------------|
| RELG 256 | (3) | Women in Judaism and Islam |
| RELG 270 | (3) | Religious Ethics and the Environment |
| RELG 271 | (3) | Sexual Ethics |
| WMST 200* | (3) | Introduction to Women's Studies |

French

Students may choose up to 12 credits of French as a Second Language (FRSL) courses and/or French (FREN) courses.

Mathematics

Students may choose up to 12 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 |
|----------|-----|------------------------------------|

Music

Students may choose up to 12 credits from this list. Students may also select any Music course with the MUGT, MUHL, MUIT, or MUCT subject codes.

With the permission of the Program Adviser, students without a formal music background may choose courses with the MUAR subject code.

* Note: Courses marked with a single asterisk ("*") require permission from the Schulich School of Music to register.

| | | |
|-----------|-----|-----------------------------------|
| EDEA 341 | (3) | Listening for Learning |
| EDEA 352 | (3) | Music Listening in Education |
| EDEA 362 | (3) | Movement, Music and Communication |
| MUJZ 160* | (3) | Jazz Materials 1 |
| MUJZ 161* | (3) | Jazz Materials 2 |

Natural Sciences

Students may choose up to 12 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 |
| EDEE 473 | (3) | Ecological Studies |
| EDEE 474 | (3) | Problems of the Environment |
| 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 12 credits of Ph

9.21 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 514-398-4533.

Students who have not completed Quebec CEGEP, French Baccalaureate, International Baccalaureate, or at least one year of university studies prior to commencing the B.Ed. must also complete a minimum of 30 credits of freshman courses (in addition to the 120 credit program) for a total of 150 credits. Students who are admitted as "mature students" are not required to complete the 30 credits of Freshman courses. These students are admitted to U1.

Please note that graduates of teacher education programs are recommended by the University for Quebec Certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs", and "Quebec Teacher Certification".

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in Elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.).

Students admitted to the First Nations and Inuit Studies program in U0 should consult with their program adviser for guidance on course selection. More information is also found for newly admitted students to the B.Ed. Kindergarten and Elementary Education program on the Faculty of Education website at <http://www.mcgill.ca/edu-dise/students/undergraduate/new/#KE>.

Required Courses (108 credits)

| | | |
|----------|-----|---|
| EDEA 242 | (3) | Cultural Skills 1 |
| EDEA 243 | (3) | Cultural Skills 2 |
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 203 | (3) | Communication in Education |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 216 | (0) | Aboriginal Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 253 | (1) | Second Professional Seminar (Kindergarten/Elementary) |
| EDEC 260 | (3) | Philosophical Foundations |
| EDEC 405 | (3) | Fourth Year Professional Seminar (K/Elem) |
| EDEE 223 | (3) | Language Arts |
| EDEE 230 | (3) | Elementary School Mathematics 1 |
| EDEE 250 | (2) | The Kindergarten Classroom |
| EDEE 270 | (3) | Elementary School Science |
| EDEE 275 | (2) | Science Teaching |
| EDEE 280 | (3) | Geography, History and Citizenship Education |
| EDEE 282 | (2) | Teaching Social Sciences |
| EDEE 291 | (3) | Cultural Values and Socialization |
| EDEE 325 | (3) | Children's Literature |
| EDEE 332 | (3) | Teaching Elementary Mathematics 2 |
| EDEE 342 | (3) | Intermediate Inuktitut/Amerindian Language |
| EDEE 344 | (3) | Advanced Inuktitut/Amerindian Language |
| EDEE 353 | (3) | Teaching and Learning in the Elementary Classroom |
| EDEE 355 | (3) | Classroom-based Evaluation |
| EDER 360 | (2) | Ethics and Religious Culture (K/Elementary) |

| | | |
|----------|-----|---|
| EDFE 256 | (3) | Second Field Experience (Kindergarten/Elementary) |
| EDFE 306 | (8) | Third Field Experience (Kindergarten/Elementary) |
| EDFE 406 | (7) | Fourth Field Experience (K/Elem) |
| EDKP 241 | (3) | Aboriginal Physical Activities |
| EDKP 292 | (3) | Nutrition and Wellness |
| EDPE 300 | (3) | Educational Psychology |
| EDPI 309 | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |
| EDSL 247 | (3) | Second Language Education in Aboriginal Communities |
| EDSL 305 | (3) | L2 Learning: Classroom Settings |
| EDSL 447 | (3) | Methods in TESL 1 |
| RELG 207 | (3) | The Study of World Religions 1 |

Complementary Courses (12 credits)

12 credits of courses selected as described below.

Language - Complementary Component

6 credits from the follo

| | | |
|----------|-----|-------------------|
| EDEE 297 | (3) | Mohawk Language 1 |
| EDEE 298 | (3) | Mohawk Language 2 |

Naskapi

| | | |
|----------|-----|--------------------|
| EDEC 227 | (3) | Naskapi Language 1 |
| EDEC 228 | (3) | Naskapi Language 2 |

Media, Technology, Computers and Education - Complementary Component

3 credits from:

| | | |
|----------|-----|--|
| EDEC 262 | (3) | Media, Technology and Education |
| EDPT 200 | (3) | Integrating Educational Technology in Classrooms |
| EDPT 204 | (3) | Educational Media 1 |

Education - Complementary Component

3 credits from:

| | | |
|----------|-----|-------------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural Education |
| EDEC 249 | (3) | Global Education and Social Justice |
| EDPC 208 | (3) | Native Families' Dynamics |

9.22 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 Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "Undergraduate Education Programs," and "Quebec Teacher Certification."

Freshman Program

Students normally complete 30 credits in their Freshman (U0) year.

The Freshman year is the time to take introductory-level courses in the subjects taught in elementary school, as well as to explore areas that are not normally taken as teachable subject area courses within B.Ed. programs (e.g., Sociology, Psychology, Political Science, etc.). Students should also investigate the possibility of taking one of the First Year Seminar courses offered by the Faculty of Arts or the Faculty of Science.

In addition, in consultation with the Program Adviser, students may select courses from the recommended course list below or other courses. Included in the list are several French Second Language (FRSL) courses for which placement tests are required to determine the appropriate level. Also recommended are any 100- or 200-level courses with the subject codes of ANTH (Anthropology), ENGL (English), GEOG (Geography), HIST (History), MUAR (Music-Arts Faculty), POLI (Political Science), PSYC (Psychology), RELG (Religious Studies), and SOCI (Sociology). For 200-level courses, information about any required prerequisites is found in the Minerva Class Schedule by clicking on the course CRN for registration. Check prerequisites before registering.

| | | |
|----------|-----|----------------------------------|
| CEAP 250 | (3) | Research Essay & Rhetoric |
| EDEE 325 | (3) | Children's Literature |
| EDEM 220 | (3) | Contemporary Issues in Education |

| | | |
|------------|-----|------------------------------------|
| EDES 366 | (3) | Literature for Young Adults |
| FRSL 101D1 | (3) | Beginners French |
| FRSL 101D2 | (3) | Beginners French |
| 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) | The Study of World Religions 1 |

Required Courses (81 credits)

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 203 | (3) | Communication in Education |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 253 | (1) | Second Professional Seminar (Kindergarten/Elementary) |
| EDEC 405 | (3) | Fourth Year Professional Seminar (K/Elem) |
| EDEE 223 | (3) | Language Arts |
| EDEE 230 | (3) | Elementary School Mathematics 1 |
| EDEE 250 | (2) | The Kindergarten Classroom |
| EDEE 260 | (3) | Reading Methods - Early Childhood |
| EDEE 270 | (3) | Elementary School Science |
| EDEE 275 | (2) | Science Teaching |
| EDEE 280 | (3) | Geography, History and Citizenship Education |
| EDEE 282 | (2) | Teaching Social Sciences |
| EDEE 325 | (3) | Children's Literature |
| EDEE 332 | (3) | Teaching Elementary Mathematics 2 |
| EDEE 353 | (3) | Teaching and Learning in the Elementary Classroom |
| 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 & 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) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |
| JWST 211 | (3) | Jewish Studies 1: Biblical Period |

Complementary Courses (36 credits)

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 |

Media, Technology, Computer

| | | |
|------------|-----|---|
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDEC 253 | (1) | Second Professional Seminar (Kindergarten/Elementary) |
| EDEC 405 | (3) | Fourth Year Professional Seminar (K/Elem) |
| EDEE 223 | (3) | Language Arts |
| EDEE 230** | (3) | Elementary School Mathematics 1 |
| EDEE 250 | (2) | The Kindergarten Classroom |
| EDEE 260 | (3) | Reading Methods - Early Childhood |
| EDEE 270** | (3) | Elementary School Science |
| EDEE 275** | (2) | Science Teaching |
| EDEE 280 | (3) | Geography, History and Citizenship Education |
| EDEE 282 | (2) | Teaching Social Sciences |
| EDEE 325 | (3) | Children's Literature |
| EDEE 332** | (3) | Teaching Elementary Mathematics 2 |
| EDEE 353 | (3) | Teaching and Learning in the Elementary Classroom |
| EDEE 355 | (3) | Classroom-based Evaluation |
| EDER 360 | (2) | Ethics and Religious Culture (K/Elementary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 256 | (3) | Second Field Experience (Kindergarten/Elementary) |
| EDFE 306* | (8) | Third Field Experience (Kindergarten/Elementary) |
| EDFE 406* | (7) | Fourth Field Experience (K/Elem) |
| EDPE 300 | (3) | Educational Psychology |
| EDPI 309 | (3) | Exceptional Students |
| EDPI 341 | (3) | Instruction in Inclusive Schools |
| EDSL 300 | (3) | Foundations of L2 Education |
| EDSL 305 | (3) | L2 Learning: Classroom Settings |
| EDSL 341* | (3) | Littérature et littérature jeunesse en FLS |

* Note: At least one of these Field Experiences must be completed in a French immersion setting.

** Sections may be taken in French.

Kindergarten and Elementary Teaching Methods

| | | |
|----------|-----|---|
| EDSL 345 | (3) | Enseignement du FLS-immersion |
| EDSL 444 | (3) | Laboratoire d'enseignement en français langue seconde |

Complementary Courses (27 credits)

27 credits selected as described below:

Multicultural Education

3 credits from:

| | | |
|----------|-----|-------------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural Education |
| EDEC 249 | (3) | Global Education and Social Justice |

Philosophy of Education

3 credits from:

| | | |
|----------|-----|----------------------------------|
| EDEC 260 | (3) | Philosophical Foundations |
| EDEC 261 | (3) | Philosophy of Catholic Education |

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) | Educational Media 1 |

Ethics and Religious Culture

3 credits from:

| | | |
|----------|-----|--------------------------------|
| EDER 309 | (3) | The Religious Quest |
| EDER 395 | (3) | Moral Values and Human Action |
| EDER 473 | (3) | Living with Insight |
| EDER 494 | (3) | Ethics in Practice |
| RELG 207 | (3) | The Study of World Religions 1 |

French

15 credits selected from courses with a FREN prefix

| | | |
|-----------|-----|--|
| EDSL 301* | (3) | Étude de la langue |
| EDSL 341* | (3) | Littérature et littérature jeunesse en FLS |

* Students may select EDSL 301 OR FREN 231 but not both.

Elective Courses (3 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 |
| EDKP 332 | (3) | Physical Education Curriculum and Instruction |
| MATH 111 | (3) | Mathematics for Education Students |

Students admitted to the B.Ed. TFSL program are required to take a diagnostic test in French Language (written and oral). Based on test results, students may be required to successfully complete a remedial course above and beyond degree requirements. In addition, there will be a compulsory French language test for TFSL students prior to their third Field Experience. Students will be required to pass this test in order to continue in the program.

Please note that graduates of teacher education programs are recommended by the University for Quebec certification to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). For more information about teacher certification in Quebec, please refer to the Faculty of Education section under "Overview of Faculty Programs", "ETder "Ov

| | | |
|----------|-----|--|
| EDUM 491 | (3) | Didactique des mathématiques en langues secondes |
| EDUM 492 | (3) | Didactique des sciences-technologies |
| FREN 251 | (3) | Littérature française depuis 1800 |
| FREN 252 | (3) | Littérature québécoise |

9 credits to increase the student's proficiency level in the teaching of French, the following courses (or equivalent courses if not available):

| | | |
|----------|-----|--|
| FREN 239 | (3) | Stylistique comparée |
| FREN 245 | (3) | Grammaire avancée |
| FREN 334 | (3) | Méthode d'analyse des textes littéraires 1 |

Complementary Courses (40 credits)

40 credits selected as described below.

3 credits from:

| | | |
|----------|-----|----------------------------------|
| EDEC 260 | (3) | Philosophical Foundations |
| EDEC 261 | (3) | Philosophy of Catholic Education |

8 credits, one of two sets of courses:

Either set:

| | | |
|----------|-----|---|
| EDFE 362 | (7) | Stage d'enseignement en Français langue seconde |
| EDSL 320 | (1) | Séminaire 3 professionnel |

Or set:

| | | |
|----------|-----|------------------------|
| EDFM 361 | (7) | Stage d'enseignement 1 |
| EDUM 394 | (1) | Séminaire de stage-3e |

11 credits, one of two sets of courses:

Either set:

(9.864 326.481 T8((d 15.73e g n e s o n f e o m m e s) T j n 0 0 1 67.5(FR403p4)Tj1o sets of ction

| | | |
|----------|-----|--|
| EDSL 472 | (3) | Enseignement du français langue seconde-secondaire |
| EDUM 391 | (3) | Didactique du français en accueil 1 |

3 credits from:

| | | |
|----------|-----|---------------------------------------|
| EDUM 493 | (3) | Sciences humaines au primaire |
| EDUM 494 | (3) | Didactique de l'univers social et TIC |
| EDUM 495 | (3) | Recherche-résolution de problèmes |

| | | |
|------------|-----|---------------------------------------|
| ENGL 201 | (3) | Survey of English Literature 2 |
| FRSL 101D1 | (3) | Beginners French |
| FRSL 101D2 | (3) | Beginners French |
| 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 (78 credits)

| | | |
|----------|-----|-------------------------------------|
| EDEC 203 | (3) | Communication in Education |
| EDEC 215 | (0) | English Language Requirement |
| EDEC 247 | (3) | Policy Issues in Quebec Education |
| EDES 350 | (3) | Classroom Practices (Secondary) |
| 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) | Exceptional Students |
| EDSL 210 | (1) | First Professional Seminar |
| EDSL 215 | (3) | Effective Communication in French |
| 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 (36 credits)

36 credits selected as described below:

3 credits from:

First Nations and Inuit Education (FNIE)
 3700 McTavish Street, Room 244
 Montreal, Quebec H3A 1Y2

Telephone: 514-398-4533
 Fax: 514-398-2553
 Website: www.mcgill.ca/dise

For details about the First Nations and Inuit Studies option within the Bachelor of Education Kindergarten and Elementary program, see [section 9.21: Bachelor of Education \(B.Ed.\) - Kindergarten and Elementary Education - First Nations and Inuit Studies \(120 credits\)](#).

10.1 Certificate in Education for First Nations and Inuit (60 credits)

Program under review.

This 60-credit program provides an opportunity for Algonquin, Cree, Inuit, Mi'kmaq, and Mohawk people to become qualified as teachers. It is offered on a part-time basis in Indigenous communities throughout Quebec in collaboration with, for example, the Cree School Board, the Kativik School Board and various Mi'kmaq, Mohawk, Algonquin and education authorities.

Quebec graduates of this program receive Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) certification to teach at the elementary school level in First Nations and Inuit schools.

On completion of the Certificate requirements, trainees may apply for admission to the Bachelor of Education for Certified Teachers program with up to 30 credits advanced standing. Certain non-credit academic upgrading courses may be required of B.Ed. applicants.

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.

The following program requirements are for all students except those specializing in teaching physical education.

Required Courses (30 credits)

| | | |
|----------|-----|--|
| EDEC 203 | (3) | Communication in Education |
| EDEC 260 | (3) | Philosophical Foundations |
| EDEE 325 | (3) | Children's Literature |
| EDEM 202 | (3) | Native Family Dynamics & Supporting Institutions |
| EDPE 300 | (3) | Educational Psychology |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

12 credits of practicum courses:

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 253 | (1) | Second Professional Seminar (Kindergarten/Elementary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 256 | (3) | Second Field Experience (Kindergarten/Elementary) |
| EDFE 300 | (5) | Aboriginal Education Field Experience |

Complementary Courses

30 credits selected as described below:

6 credits from the following language courses according to language group and fluency:

Algonquin

| | | |
|----------|-----|-----------------------------|
| EDEC 234 | (3) | Algonquin Second Language 2 |
| EDEE 293 | (3) | Algonquin Second Language 1 |

| | | |
|----------|-----|----------------------|
| EDEE 294 | (3) | Algonquin Language 1 |
| EDEE 295 | (3) | Algonquin Language 2 |

Cree

| | | |
|----------|-----|-----------------|
| EDEC 241 | (3) | Cree Language 1 |
| EDEC 242 | (3) | Cree Language 2 |

Inuktitut

| | | |
|----------|-----|--|
| EDEE 249 | (3) | Inuktitut Orthography and Grammar |
| EDEE 342 | (3) | Intermediate Inuktitut/Amerindian Language |

Mi'kmaq

| | | |
|----------|-----|---------------------------|
| EDEC 237 | (3) | Mi'kmaq Second Language 1 |
| EDEC 238 | (3) | Mi'kmaq Second Language 2 |
| EDEC 239 | (3) | Mi'kmaq Language 1 |
| EDEC 240 | (3) | Mi'kmaq Language 2 |

Mohawk

| | | |
|----------|-----|--------------------------|
| EDEC 236 | (3) | Mohawk Second Language 2 |
| EDEE 296 | (3) | Mohawk Second Language 1 |
| EDEE 297 | (3) | Mohawk Language 1 |
| EDEE 298 | (3) | Mohawk Language 2 |

Naskapi

| | | |
|----------|-----|--------------------|
| EDEC 227 | (3) | Naskapi Language 1 |
| EDEC 228 | (3) | Naskapi Language 2 |

Cultural Skills and Language Arts

6 credits:

| | | |
|----------|-----|-------------------|
| EDEA 242 | (3) | Cultural Skills 1 |
| EDEE 223 | (3) | Language Arts |

18 credits from course List A and course List B with at least 12 credits in different subject areas. Priority should be given to selecting courses from List A.

List A

| | | |
|----------|-----|---------------------------------|
| EDEC 262 | (3) | Media, Technology and Education |
| EDEE 230 | (3) | Elementary School Mathematics 1 |
| EDEE 241 | (3) | Teaching Language Arts |
| EDEE 250 | (2) | The Kindergarten Classroom |
| EDEE 270 | (3) | Elementary School Science |
| EDEE 275 | (2) | Science Teaching |

| | | |
|----------|-----|--|
| EDEE 280 | (3) | Geography, History and Citizenship Education |
| EDEE 282 | (2) | Teaching Social Sciences |
| EDEE 291 | (3) | Cultural Values and Socialization |
| EDEE 332 | (3) | Teaching Elementary Mathematics 2 |
| EDEE 355 | (3) | Classroom-based Evaluation |

List B

| | | |
|-------------|-----|---|
| EDEA 241 | (3) | Basic Art Media for Classroom |
| EDEC 200 | (3) | Introduction to Inuit Studies |
| EDEC 220 | (3) | Curriculum Development |
| EDEC 243 | (3) | Teaching: Multigrade Classrooms |
| EDEC 244 | (3) | Issues in Aboriginal Education |
| EDEC 403 | (3) | The Dialects of Inuktitut |
| 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 261 | (3) | Reading Clinic - Early Childhood |
| EDEE 292 | (3) | Using Instructional Resources |
| EDEE 340 | (3) | Special Topics: Cultural Issues |
| EDEE 342 | (3) | Intermediate Inuktitut/Amerindian Language |
| EDEE 344 | (3) | Advanced Inuktitut/Amerindian Language |
| EDEE 346 | (3) | Literature and Creative Writing 2 |
| EDEE 444 | (3) | First Nations and Inuit Curriculum |
| EDKP 204 | (3) | Health Education |
| EDKP 224 | (3) | Foundations of Movement Education |
| EDKP 342 | (3) | Physical Education Methods |
| EDKP 494 | (3) | Physical Education Curriculum Development |
| EDPE 377 | (3) | Adolescence and Education |
| EDSL 247(3) | (3) | First Nations of Mo Second Language Education in Aboriginal Communities |

Required Courses (30 credits)

| | | |
|----------|-----|--|
| EDEC 203 | (3) | Communication in Education |
| EDEC 260 | (3) | Philosophical Foundations |
| EDEE 325 | (3) | Children's Literature |
| EDEM 202 | (3) | Native Family Dynamics & Supporting Institutions |
| EDPE 300 | (3) | Educational Psychology |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

12 credits of practicum courses; students specializing in Physical Education will do a minimum of 6 credits in Physical Education settings.

| | | |
|----------|-----|---|
| EDEC 201 | (1) | First Year Professional Seminar |
| EDEC 253 | (1) | Second Professional Seminar (Kindergarten/Elementary) |
| EDFE 200 | (2) | First Field Experience (K/Elem & Secondary) |
| EDFE 256 | (3) | Second Field Experience (Kindergarten/Elementary) |
| EDFE 300 | (5) | Aboriginal Education Field Experience |

Complementary Courses (30 credits)

30 credits selected as described below:

6 credits from the following language courses according to language group and fluency:

Algonquin

| | | |
|----------|-----|-----------------------------|
| EDEC 234 | (3) | Algonquin Second Language 2 |
| EDEE 293 | (3) | Algonquin Second Language 1 |
| EDEE 294 | (3) | Algonquin Language 1 |
| EDEE 295 | (3) | Algonquin Language 2 |

Cree

| | | |
|----------|-----|-----------------|
| EDEC 241 | (3) | Cree Language 1 |
| EDEC 242 | (3) | Cree Language 2 |

Inuktitut

| | | |
|----------|-----|--|
| EDEE 249 | (3) | Inuktitut Orthography and Grammar |
| EDEE 342 | (3) | Intermediate Inuktitut/Amerindian Language |

Mi'kmaq

| | | |
|----------|-----|---------------------------|
| EDEC 237 | (3) | Mi'kmaq Second Language 1 |
| EDEC 238 | (3) | Mi'kmaq Second Language 2 |
| EDEC 239 | (3) | Mi'kmaq Language 1 |
| EDEC 240 | (3) | Mi'kmaq Language 2 |

Mohawk

| | | |
|----------|-----|--------------------------|
| EDEC 236 | (3) | Mohawk Second Language 2 |
| EDEE 296 | (3) | Mohawk Second Language 1 |
| EDEE 297 | (3) | Mohawk Language 1 |
| EDEE 298 | (3) | Mohawk Language 2 |

Naskapi

| | | |
|----------|-----|--------------------|
| EDEC 227 | (3) | Naskapi Language 1 |
| EDEC 228 | (3) | Naskapi Language 2 |

9 credits:

| | | |
|----------|-----|---|
| EDKP 241 | (3) | Aboriginal Physical Activities |
| EDKP 342 | (3) | Physical Education Methods |
| EDKP 494 | (3) | Physical Education Curriculum Development |

6 credits from the following physical education courses:

| | | |
|----------|-----|--------------------------------|
| EDKP 214 | (1) | Basketball 1 |
| EDKP 217 | (2) | Track & Field / Cross Country |
| EDKP 218 | (1) | Volleyball 1 |
| EDKP 223 | (2) | Games: Principles and Practice |
| EDKP 229 | (1) | Ice Hockey 1 |
| EDKP 240 | (1) | Winter Activities |

List A

9 credits from different subject areas from course List A and course List B with priority given to courses from List A.

| | | |
|----------|-----|--|
| EDEC 262 | (3) | Media, Technology and Education |
| EDEE 230 | (3) | Elementary School Mathematics 1 |
| EDEE 241 | (3) | Teaching Language Arts |
| EDEE 250 | (2) | The Kindergarten Classroom |
| EDEE 270 | (3) | Elementary School Science |
| EDEE 275 | (2) | Science Teaching |
| EDEE 280 | (3) | Geography, History and Citizenship Education |
| EDEE 282 | (2) | Teaching Social Sciences |
| EDEE 291 | (3) | Cultural Values and Socialization |
| EDEE 332 | (3) | Teaching Elementary Mathematics 2 |
| EDEE 355 | (3) | Classroom-based Evaluation |

List B

| | | |
|----------|-----|---------------------------------|
| EDEA 241 | (3) | Basic Art Media for Classroom |
| EDEC 200 | (3) | Introduction to Inuit Studies |
| EDEC 220 | (3) | Curriculum Development |
| EDEC 243 | (3) | Teaching: Multigrade Classrooms |

| | | |
|----------|-----|---|
| EDEC 244 | (3) | Issues in Aboriginal Education |
| EDEC 403 | (3) | The Dialects of Inuktitut |
| 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 261 | (3) | Reading Clinic - Early Childhood |
| EDEE 292 | (3) | Using Instructional Resources |
| EDEE 340 | (3) | Special Topics: Cultural Issues |
| EDEE 342 | (3) | Intermediate Inuktitut/Amerindian Language |
| EDEE 344 | (3) | Advanced Inuktitut/Amerindian Language |
| EDEE 345 | (3) | Literature and Creative Writing 1 |
| EDEE 346 | (3) | Literature and Creative Writing 2 |
| EDEE 444 | (3) | First Nations and Inuit Curriculum |
| EDKP 204 | (3) | Health Education |
| EDKP 224 | (3) | Foundations of Movement Education |
| EDKP 342 | (3) | Physical Education Methods |
| EDKP 494 | (3) | Physical Education Curriculum Development |
| EDPE 377 | (3) | Adolescence and Education |
| EDSL 247 | (3) | Second Language Education in Aboriginal Communities |

10.3 Admission to the Certificate in Education for First Nations and Inuit and to the Certificate in Education for First Nations and Inuit Physical Education

Those intending to complete the programs offered in cooperation with the Kativik School Board must be fluent and literate in Inuktitut/Inuinnaqtun. Fluenc

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'kmaq Language 1 |
| EDEC 240 | (3) | Mi'kmaq Language 2 |
| EDEC 241 | (3) | Cree Language 1 |
| EDEC 242 | (3) | Cree Language 2 |
| EDEE 249 | (3) | Inuktitut Orthography and Grammar |
| EDEE 294 | (3) | Algonquin Language 1 |
| EDEE 295 | (3) | Algonquin Language 2 |
| EDEE 297 | (3) | Mohawk Language 1 |
| EDEE 298 | (3) | Mohawk Language 2 |

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 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.

10.4.1 Admission to the Certificate in Aboriginal 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.

10.5 Certificate in Middle School Education in Aboriginal 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 |
| EDEE 291 | (3) | Cultural Values and Socialization |
| EDEE 444 | (3) | First Nations and Inuit Curriculum |
| EDKP 241 | (3) | Aboriginal Physical Activities |
| EDPT 200 | (3) | Integrating Educational Technology in Classrooms |
| EDSL 247 | (3) | Second Language Education in Aboriginal Communities |
| EDSL 305 | (3) | L2 Learning: Classroom Settings |

10.5.1 Admission to the Certificate in Middle School Education in Aboriginal 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.

10.6 Certificate in First Nations and Inuit Educational Leadership (30 credits)

This 30-credit program is designed for First Nations and Inuit organizations to develop their role as leaders within the educational community. The program will focus on developing the core competencies of educational leaders, e.g., decision making and problem solving; fostering a self-reflective leader able to partner with parents to create community outreach; cultivating awareness of the holistic learning and developmental cycles of a child and the role of the educational leader in enhancing that development; maintaining the continuity of community and cultural values and aspirations within the structure of the

administration of the school and other educational milieu; and understanding and supporting the pedagogical objectives and the administrative framework of the educational system.

This certificate may be taken concurrently and completed within the Bachelor of Education for Certified Teachers if the requirements for the B.Ed. are fulfilled. It may also be followed concurrently with the Certificate in Education - First Nations and Inuit.

Required Courses (15 credits)

| | | |
|----------|-----|-------------------------------------|
| EDEC 221 | (3) | Leadership and Group Skills |
| EDEC 222 | (3) | Personnel Management and Support |
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 311 | (3) | Resource Management |
| EDEC 312 | (3) | Practicum in Educational Leadership |

Complementary Courses (15 credits)

15 credits from the list below or any other course approved by the Director of Programs in First Nations and Inuit Education.

| | | |
|----------|-----|--|
| EDEC 220 | (3) | Curriculum Development |
| EDEC 244 | (3) | Issues in Aboriginal Education |
| EDEE 240 | (3) | Use and Adaptation of Curricula |
| EDEE 245 | (3) | Orientation to Education |
| EDEE 340 | (3) | Special Topics: Cultural Issues |
| EDEM 202 | (3) | Native Family Dynamics & Supporting Institutions |
| EDES 365 | (3) | Experiences in Communications |
| EDPI 341 | (3) | Instruction in Inclusive Schools |

10.6.1 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 equiv

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.

10.7.1 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.

10.8 Certificate in Aboriginal Education for Certified Teachers (30 credits)

This 30-credit program provides training to assist mainstream teachers in becoming more effective teachers in First Nations and Inuit communities. It is designed to address subjects of particular interest and need in First Nations and Inuit schools, such as cultural socialization, cooperative learning, second-language teaching, and curriculum development.

Required Courses (18 credits)

| | | |
|----------|-----|---|
| EDEC 220 | (3) | Curriculum Development |
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEE 240 | (3) | Use and Adaptation of Curricula |
| EDEE 291 | (3) | Cultural Values and Socialization |
| EDEE 444 | (3) | First Nations and Inuit Curriculum |
| EDSL 247 | (3) | Second Language Education in Aboriginal Communities |

Complementary Courses (12 credits)

12 credits selected as described below.

Language

3 credits of an introductory language course in the language of the community.

Education

9 credits of Education courses selected from the list below or any other suitable course approved by the Director of Programs in First Nations and Inuit Education.

| | | |
|----------|-----|--|
| EDEA 242 | (3) | Cultural Skills 1 |
| EDEC 200 | (3) | Introduction to Inuit Studies |
| EDEE 290 | (3) | Cooperative Learning |
| EDEM 202 | (3) | Native Family Dynamics & Supporting Institutions |

10.8.1 Admission to the Certificate in Aboriginal Education for Certified Teachers

Applicants must provide the following:

- a Diploma of Collegial Studies (DEC) or its equivalent;
- evidence of having completed teacher training at an approved institution;
- a letter of recommendation from a competent authority.

All courses are normally given off campus and are normally limited to students enrolled in off-campus programs delivered through First Nations and Inuit Education. The right of final decision for acceptance of candidates rests with McGill.

10.9 Certificate in First Nations and Inuit Student Personnel Services (30 credits)

This program is of

11 Department of Kinesiology and Physical Education

11.1 Location

Currie Gym
475 Pine Avenue West
Montreal, Quebec H2W 1S4

Telephone: 514-398-4184
Fax: 514-398-4186
Email: kin.physed@mcgill.ca
Website: www.mcgill.ca/edu-kpe

11.2 About the Department of Kinesiology and Physical Education

The Department of Kinesiology and Physical Education offers one program leading to a B.Ed. degree, one program leading to a B.Sc. degree, and a Minor in Kinesiology for Science students.

The Department also offers programs at the graduate level leading to an M.A. and M.Sc., and possibilities for doctoral studies. For further information, see the most current *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies found at www.mcgill.ca/study.

11.3 Department of Kinesiology and Physical Education Faculty

Interim Chair

René A. Turcotte

Director of Undergraduate Programs

Julie Côté

Director of Graduate Programs

David J. Pearsall

Professors

Ross E. Andersen; B.Ed., M.A.(McG.), Ph.D.(Temple) (*Canada Research Chair*)

Theodore E. Milner; B.Sc., M.Sc., Ph.D.(Alta.)

Hélène Perrault; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)

Associate Professors

Gordon Bloom; M.A.(W. Ont.), M.A.(York), Ph.D.(Ott.)

Julie Côté; B.Sc., M.Sc.(Wisc., Madison), Ph.D.(Montr.)

Enrique Garcia; B.P.E., I.N.E.F.(Madrid), M.Sc.(Laval), Ph.D.(Alta.)

William Harvey; B.Ed., M.A., Ph.D.(McG.)

Russell T. Hepple; B.Sc.(Sask.), M.Sc., Ph.D.(Tor.)

David J. Pearsall; B.A., B.P.H.E., M.Sc., Ph.D.(Qu.)

Dilson Rassier; B.P.E., M.Sc.(Brazil), Ph.D.(Calg.)

Tanja Taivassalo; B.Sc., Ph.D.(McG.)

Associate Professors

René A. Turcotte; H.B.P.H.E.(Laur.), M.Sc., Ph.D.(Alta.)

Assistant Professors

Dennis (McGill) Robert Boush, MA 130.76 709.84 Tm (7.025s5 (v.(McGSc.),804cad.(AltaA136S. Flo. G 0 g BT /Fn28.69s5 (v.(McGS(AID 0 0 1Bosto

Caroline Paquette; B.Sc., M.Sc.(Laval), Ph.D.(McG.)

Faculty Lecturer

Celena Scheede-Bergdahl; B.Sc.(C'dia), M.Sc.(Montr

| | | |
|----------|-----|---|
| EDFE 380 | (7) | Third Field Experience (Physical Education) |
| EDFE 480 | (7) | Fourth Field Experience (Physical Education) |
| EDKP 204 | (3) | Health Education |
| EDKP 208 | (3) | Biomechanics and Motor Learning |
| EDKP 213 | (1) | Aquatics 1 |
| EDKP 214 | (1) | Basketball 1 |
| EDKP 215 | (0) | Standard First Aid/Cardio-Pulmonary Resuscitation Level C |
| EDKP 217 | (2) | Track & Field / Cross Country |
| EDKP 218 | (1) | Volleyball 1 |
| EDKP 219 | (1) | Healthy Lifestyle Activity |
| EDKP 223 | (2) | Games: Principles and Practice |
| EDKP 225 | (1) | Games: Principles and Practice 2 |
| EDKP 226 | (1) | Quebec Education Program Orientation |
| EDKP 233 | (1) | Soccer |
| EDKP 252 | (2) | Racquet Sports |
| EDKP 253 | (1) | Educational Gymnastics |
| EDKP 254 | (1) | Principles of Dance |
| 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 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 208 | (3) | Personality and Social Development |
| EDPE 300 | (3) | Educational Psychology |

Complementary Courses (10 credits)

10 credits selected as specified below:

Physical Activity

4 credits of Physical Activity courses (EDKP) offered by the Department of Kinesiology and Physical Education.

Multicultural Education

3 credits from:

| | | |
|----------|-----|-----------------------------------|
| EDEC 233 | (3) | First Nations and Inuit Education |
| EDEC 248 | (3) | Multicultural 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) Educational Media 1

Electives (15 credits)

15 credits chosen from any of the University's course offerings to contribute to the student's academic proficiency and professional preparation.

11.5 Bachelor of Science (Kinesiology) (B.Sc.(Kinesiology)) - Kinesiology (90 credits)

The McGill Bachelor of Science (B.Sc.) - Kinesiology program received accreditation from the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA) in April 2007.

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 (64 credits)

| | | |
|----------|-----|---|
| ANAT 315 | (3) | Anatomy/Limbs and Back |
| ANAT 316 | (3) | 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) | Practicum 1 |
| EDKP 261 | (3) | Motor Development |
| EDKP 292 | (3) | Nutrition and Wellness |
| EDKP 330 | (3) | Physical Activity and Health |
| EDKP 350 | (3) | Physical Fitness Evaluation Methods |
| EDKP 395 | (3) | Exercise Physiology |
| 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) | Practicum 2 |
| EDKP 485 | (3) | Exercise Pathophysiology 1 |
| EDKP 495 | (3) | Scientific Principles of Training |
| EDKP 498 | (3) | Sport Psychology |
| PHGY 209 | (3) | Mammalian Physiology 1 |
| PHGY 210 | (3) | Mammalian Physiology 2 |

Complementary Courses (12 credits)

12 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

9 credits from:

| | | |
|----------|-----|-----------------------------------|
| EDKP 200 | (1) | Weight Training |
| EDKP 201 | (3) | Physical Activity Leadership |
| EDKP 244 | (1) | Dance and Fitness |
| EDKP 311 | (3) | Athletic Injuries |
| EDKP 394 | (3) | Historical Perspectives |
| EDKP 444 | (3) | Ergonomics |
| EDKP 445 | (3) | Exercise Metabolism |
| EDKP 446 | (3) | Physical Activity and Ageing |
| EDKP 449 | (3) | Exercise Pathophysiology 2 |
| EDKP 451 | (3) | Personal Trainer Practicum |
| EDKP 452 | (3) | Fitness & Lifestyle Consulting |
| EDKP 453 | (3) | Research Practicum in Kinesiology |
| EDKP 542 | (3) | Environmental Exercise Physiology |
| EDKP 566 | (3) | Advanced Biomechanics Theory |
| NUTR 503 | (3) | Bioenergetics and the Lifespan |

Elective Courses (14 credits)

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Email: sis@mcgill.ca
Website: www.mcgill.ca/sis

12.2 About the School of Information Studies

The School of Information Studies focuses upon the knowledge and skills necessary to identify, acquire, organize, retrieve, and disseminate information so as to meet people's varied information needs.

The School of Information Studies offers four programs at the graduate level. Its 48-credit Master of Library and Information Studies (MLIS) has three areas of specialization: Archival Studies, Knowledge Management, and Librarianship. Accredited by the American Library Association, the MLIS program prepares professionals to manage information resources and services in libraries and the wider information industries. Its 30-credit Graduate Diploma in Library and Information Studies and 15-credit Graduate Certificate in Library and Information Studies are designed to provide a formal environment in which information professionals can update, specialize, and redirect their careers for advanced responsibilities. Its Ph.D. program provides an opportunity to undertake research at the doctoral level in library and information studies within an interdisciplinary context.

For further information concerning programs, requirements, and courses, consult the School of Information Studies section of the most current *Programs, Courses and University Regulations* publication for Graduate and Postdoctoral Studies available at www.mcgill.ca/study or the School [website](#)

Part-time Instructors

Nathalie Blanchard; B.A., B.F.A.(C'dia), M.L.I.S.(McG.)

Heather Brydon; B.Ed.(Saint-Boniface), M.L.I.S.(McG.)

Louise Carpentier; B.L.S.(Tor.), M.Bibl.(Montr.), M.P.P.A.(C'dia)

Jonathan Dorey; B.A.(Montr.), M.L.I.S.(McG.)

Rhiannon Gainor; B.A.(Brigham Young), M.L.I.S/M.A.(Alta.)

Aleece Germano; B.A.(N. Hamp.)

Michele Jenkins; B.A.(Calif.-Santa Cruz), M.L.I.S.(McG.)

Rajiv Johal; B.Com., M.L.I.S.(McG.)

Nouf Khashman; B.A.(Al-Balqa' Univ.), M.L.I.S.(McG.)

Trudi Wright; B.A.(Brock), M.A.(Guelph), M.L.I.S.(McG.)