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1 About the Faculty

The Faculty serves approximately 2,000 students enrolled in unrabeluate, graduate and profession arbitrary the Faculty is organized into three departments and the School of Information Studies. In additionation and the school of Information Studies. In additionation and the school of Information Studies in additionation and the school of Information Studies.

Like other aculties of education in Quebec and Canada, abelfy has had a traditional role in the initial training of teachers and leaders in education-allied occupations. It is also concerned with constructing when deep through research and scholarship and with in professional deelopment services to the wider educational community

In recent years a number of links/babeen established with counterparts in other countries for teaching, researc/retorphotent purposes. Current areti projects, some of which/nolve students as well as stanced those in Japan, Indonesia, SoAftfica and Mexico.

2 History

The Faculty of Education traces its dienings back to 1857, when the McGill Normal Schoek westablished at McGill by agreement between the Education traces its dienings back to 1857, when the McGill Normal Schoek westablished at McGill by agreement between the Education and the Greenment of Quebec. In 1907, its verenamed the School free achers and see moved to Sainte-Anne-de-Bellee, where it became part of Macdonald College. At this time also, the Macdonald Chair of Educations wend we dat McGill University and a Department of Education swcreated in the Faculty of Arts and Science for the purpose of preparing candidates for the High School Diplicement graduate programmes inaugurated in 1930, and in 1953, the University established the BED. of the University established the BED.

In 1955, the School foreachers and the Department of Education were combined to become the Institute of Education without the Arts and Science. To these was joined, in 1957, the McGill School of Paical Education (founded in 1912).

The Institute was reconstituted as the Gulty of Education in 1965 and the Not continued on both the McGill and Macdonald Campuistes. St. Joseph Teachers College and the Eculty of Education were amailgnated in 1970 and relocated in surfaciliding on the McGill Campus. In 1996, the School of Information Studies became af liated with the Gulty.

3 Faculty of Education Facilities

3.1 Education Library and Curriculum Resources Centre

The Education Library and Curriculum Resources Centre, located on the rst oor of the Education Buildingsproaterials and services to support the teaching and research programs of the Library collection includes ver 122,000 monograp to lumes, 500 periodical titles, microforms verment publications and access to asstrange of full-but electronic journals.

The Curriculum Resources Centre collection includes elementary and secondary submooks; teachers' resource guides, videos CDs, games, kits, puppets, big books, and equipment forwing and listening Children's Literature Collection of ction, non-ction, poetrifolklore, and picture books is located on the left as you enter the Library

Tours and instructional wwkshops are thered at the beginning of each term to invalidual students and to class states provide an introduction to library resources and information skills that will help in preparing course assignments and writing researc introduction such as searching the Library Catalogue (MUSE), nding course materials on research locating articles and other materials via databases such as ERIC; PsychINFO; Education Full Text and others. EndNotecuskshops will provide help on how to easily create footnotes and reference lists for term papers.

The Education Library prodes computers for student use, tables and carrels to connect laptops, wireless access, as well as photocopiers, printers and scanners you may select to wrk in the quiet study area of the E-Zone, prefer group study in the Curriculum Resources Centre or in one group two study rooms, or just relax on a lounge chair in an informal seating area.

Lending Services for laptops, digital and video cameras, digital vecorders and tripods are who and led by the Education Library hese services are available during rgular Library operating hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library hours, as indicated on the Library estimated by the Education Library estimated by the Education Library hours, as indicated by the Education Library estimated by the Education Library hours, as indicated by the Education Library hours, as indicated by the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the Education Library hours are the Education Library hours and the

Visit the Education Library website to learn more about library loans, hours, ereedings, and links to important education siles look forward to seeing you in the Library

Head Librarian: Sara Holder Telephone: 514-398-4689

Website:wwwmcgill.ca/education-libary

3.6 A.S. Lamb Learning Centre

The A.S. Lamb Learning Centre, consisting of the Computer Laboratory multimedia unit and the reading room, is located on the second oor of the Sir Arthur Currie Memorial Gymnasium. The computer lab houses 25 computers connected to the McGill wireless network is available for courses, workshops and individual use by students and statement printing is also validable at a cost cess to the McGill wireless network is available for laptops equipped with a wireless card.

The multimedia unit features tw/MAC computers with "Final Cut" 10 and HD/ video editing software, one/HS & DVD recorder and a Flatbed Duple

4 Revisions F aculty of Education

Integrated Studies in Education

section 10.9Bachelor of Education (B.Ed.) - Secondary Science Tendinology (120 cedits)

section 10.23Bachelor of Education (B.Ed.) Teaching French as a Second Langua -TFSL - Joint Program with the Université de Montéal (120 credits)

5 About the Faculty of Education(Undergraduate)

5.1 Department of Integrated Studies in Education

The Department of Interacted Studies in Education feels undergraduate programs that are committed to the preparation experisonal teachers for own in elementary and secondary scholles have four years 1483 tgs.73 tmce 48i.617 vEP 3.279 49s, Secondary/F2

5.4 Location

3700 McTavish Street Montreal, Quebec H3A 1Y2 Canada

Telephone: 514-398-7042 Fax: 514-398-4679

Website:wwwmcgill.ca/education

5.5 Administrative Officers

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

Andrew Large; B.Sc.(Lond.), Ph.D.(Glas.), Dip.L(bond.) (CN-Pratt-Grinstad Pofessor of Information Studies

ElizabethWood; B.F.A.(York (Can.)), B.F.A.(C'dia), Dip.Ed., M.A.,

Ph.D.(McG.)

Jefrey Derevensky; B.A.(C.W.POST), M.A., Ph.D.(McG.)

Ronald Morris; B.Ed., M.A., Ph.D.(McG.)

Victoria Talwar; M.A. Hons(StAndr.), M.A., Ph.D.(Qu.)

Alenoush Sargan; B.A.(Pahla/i), M.Ed.(Loyola-III.), Ph.D.(McG.)

France Bouthillier; B.Ed.(UQAM), MBSI(Mon \hat{y}_r , Ph.D.(\hat{t}_r .)

Steven Jordan; B.A.(Knt), M.Sc.(Lond.), Ph.D.(McG.)

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

Romy Schnaiber

Joan Barrett

Susan Maocheia

Dean

Associate Dean (Reseah and Graduate Students)(on sabbatica)

Associate Dean (AcademiAffairs)

Executive Director, Physical Infrastructur e (on sabbatica)

Executive Director (StudentAffairs)

Assistant Dean, Graduate Pograms (on sabbatica)

Chair, Department of Educational and Counselling Psychology

Director, School of Information Studies

Chair, Department of Integrated Studies in Education
Chair, Department of Kinesiology and Physical Education

Faculty Administrator
Student Affairs Of cer
Financial Of cer

6 Overview of Faculty Programs

The Faculty of Education 66rs three different kinds of programs.

Undergraduate Programs: The Faculty of ers programs leading to the Bachelor of Education (B.E.g.) electron those wishing to become teachers, and a B.Sc. (Kinesiology) Advanced standing may be up to those already holding a websity degree.

Programs of Professional Deelopment: For quali ed teachers wishing to enhance their where and skills, the aculty of ers programs of professional development leading to specialized Certi cates and Diplomas. Most courses that are required to complete these programs in the summer

Graduate Programs: The Faculty ofers graduate programs for those already holding were tho wish to pursue and cotoral degree in various elds of education and psychologynd librarTj /F2 8.1 Tf () Tj /F1 us in Tm (ogrSG)Tj /F1 0 0 14a3.975 Tm (,

than ve (5) years old in other subject areas may be considered on vaidual disubject basis by the program direction more details, see the normal direction of the program di

6.1.3 Quebec Teacher Certification

Teacher Certi cation in Quebec is the responsibility of Notice de l'Éducation, du Loisir et du Spondelle Sp. Students who complete requirements for the Bachelor of Education glaze and who meet the MELS requirements (speci edw) experience de l'Éducation glaze et du Spondelle Sp. Students who complete requirements for the Bachelor of Education glaze and who meet the MELS requirements (speci edw) experience de l'Éducation glaze et du Spondelle Sp. Students who complete requirements for the Bachelor of Education glaze et and who meet the MELS requirements (speci edw) experience et al. (1997).

Language Pro ciency

Fluengy (oral and written) in the language of instruction is a requirement for all those seeking certi cation.

Con dential declaration concerning judicial record

In June 2005, the Nation Assembly of Quebec adopted Auct amending the Education and the Act respective

Fax: 514-398-6968

Email: dean.thomson@mcgill.ca

6.2.2 Department of Integrated Studies in Education

First Nations and Inuit Education (FNIE): The Faculty of Education collaborates with rious Indigenous communities and institution for wing programs whose courses are we either at McGill or of fcampus. In collaboration with the Kwiki School Board, the Cree School Board, the Kwaki Education Centre, and wrious other Indigenous communities in Quebec, FNIE we led-based teacher education programs leading to initial teacher certi cation and to the B.Ed.Certe Ech. dgree. FNIE also works with departments to meet other educational needs of Indigenous peoples.

Director of Programs in First Nations and Inuit Education: Professor Donna-Lee Smith Of ce: Education Building, Room 244

Т

7 Faculty Regulations for Undergraduate Programs

Please consult the inversity Regulations and Geneal Informationsection of this publication for gellations and procedure general registration, fees, course load, course change (drop/add), with all averi cation, examinations, interuniversity transferand graduation. In addition, the following section provides regulations specied to Education students.



Note: Each student in thealEulty of Education must beware of and comply with thealEulty regulations as stated in this publication while departmental and account account account and account accou

7.1 Advising

Refer to the University Regulations and Gener

7.4 Additional Requirements for Students admitted to B.Ed. TFSL program

Students admitted to the B.ECFSL program are required to write diagnostic tests in French language and mathematics. Based on test results students may be required to successfully complete remedial course about by ond degree requirements. In addition there will be a compulsory French language test coordinated by an independent body ToriSL students, prior to their third Field Experience, that third be required to pass in order to continue in the program.

7.4.1 Additional Requirements for Students admitted to B.Ed. Kindergarten/Elementary program

Students admitted to the B.Ed. Kinglanten/Elementary program are required to write a diagnostic test in mathematics. Students who do not pass this test will be required to successfully complete Math 111 prior to taking EDEE 2360sturdents who live taken CEGEP course 201-101 or an equal int, Math 111 will be above and become requirements.

7.5 Judicial Record Verification for Students in the Bachelor of Education Programs

Quebec's Education Act, section 261.0.2, grants school boards the rightetidy the judicial record of an apperson regularly in contact with minors, and this includes student teachers. Each school board vorterischool may live its own administrative procedures foreir cation. Students are responsible for complying with their requestance unable to obtain the required security clearance will not be permitted to unadheefal Field Experiences, which is a mandatory requirement of the program, and consequently diviave to withdraw from the program.

7.6 Course and Program Regulations

7.6.1 Course Load

Undegraduate Education programs can normally only bewiedthon a full-time basis. Students mustetalminimum of tweler (12) credits per term unless the Executive Director StudentAffairs gives them special permission. Special permission must be requested prior to the end of the order of the end of the permission.

Any absence or reduction in course load that may impact the progression of a student program must we written approal by the Executive Director Student Affairs.

7.6.2 Time Limit and Credits for Completion of Degrees

Students are expected to complete their program in no more than (5) years after their initial giestration for the B.Ed. degree and after four (4) years for the B.Sc. (Kinesiology) degree. Students who enter into a freshman year become subject to globastiones one year after their initial giestration. Students who exceed these limits must apply to the Elity for permission to continue.

Students registered in the B.Ed. or B.Sc. are pected to complete the requirements of their programs and the desirch of 120 credits respectly. Students will receive credits for all courses (subject together regulations) taken up to and including the semester in which the full degree credit requirements. Students who wish to remain at McGilbhel that semester must seek permission of the like like Director Student Affairs. Students who wish to exceed the speci ed minimum number of credits required for the redemust also seek permission of the limit will be agged for no credit and the grades will not count in the ACGP

Permission for xeceding the time and or credit limits will normally be granted only abd academic reasons, such as change of program owadpro part-time status. If permission is granted, students will veceried to only for required and complementary courses necessary to complete their program requirements.

7.6.3 Course Requirements

All Required and Complementary courses used to ful I program requirements must be completed with a grade of Cotou disentifier who fill to obtain a satisfactory grade in a Required course must either pass the supplementation if available, or repeat the course. If the docurse is a Complementary course required by the program, a student may choose to replace it with another complementary course. If a student repeats a Required course in which was received, credit will only be given once failure (F, J, KF, WF) in any level of Field Experience or in the English Examination each certication, second attempt, places a student in unsattisfy standing requiring with dwal from the program. Further details on requirements for Field Experience are listed in section 8 Student Experience

7.11.1 Supplemental Examinations

Students who wish to write a supplemental reination for a course in which a supplemental reination is validable must apply on Mineawwithin the published deadline. Please refer to the Student Record websitemcgill.ca/studentecods/exam

should valuate their course load and reduce it;

should consult with their program adviser before the withalraleadlines;

are permitted to proceed with thexhecheduled Field Experience course, Weinter or Spring, for First- or Seconde ar Field Experiences only

7.12.2.2 Probationary Standing at the end of the Winter term

may continue in their program;

must carry a reduced load (maximum of 12 credits per term);

are not permitted to taskary level student teaching/Field Experience course during the aroademic year;

must raise theirGPA and CGPA to return to satisfctory;

should see their departmental adviser to discuss their course selection.

7.12.2.3 Students will be placed in Probationary Standing

if their CGFA falls between 1.50 and 1.99, and ifythwere prejously in satisfactory standing;

if they receive a grade of D for andevel Field Experience course and were viporesly in satisfactory standing;

if their CGFA falls between 1.50 and 1.99 and thorough in Fall or Winter is 2.50 or higheand if they were previously in probationary or interim unsatisfactory standing;

if their CGFA is between 1.50 and 1.99 and the FA is 2.50 or higherthey were prejously in unsatisactory readmitted standing, and basatis ed the relevant conditions specified in their letter of readmission.

7.12.3 Unsatisfactory/Interim Unsatisfactory Standing

7.12.3.1 Interim Unsatisfactory standing at the end of the Fall term

may continue in their program;

should galuate their course load and reduce it as appropriate;

should consult a departmental advisteefore the withdreal deadlines, about their course selection fol/Wineter term;

will not be permitted to proceed with thexheormally scheduled Field Experience.

7.12.3.2 Unsatisfactory Standing at the end of the Winter term

have failed to meet the minimum standards set by theulfy;

may not continue in their program.

7.12.3.3 Readmitted Unsatisfactory Standing

Students who were primously in unsatisactory standing and who were readmitted to tateuffy by the Executive Director Student Affairs or the Committee on Student Standing will true their standing changed to readmitted unsattisfy standing Their course load is specified in their letter of readmission, as are the conditions them to be allowed to continue in their programmer should see their departmental adviser to discuss their course selection.

7.12.3.4 Students will be placed in Unsatisfactory Standing (Winter or Summer term) or Interim Unsatisfactory Standing (Fall term)

if their CGFA falls or remains belo 1.50;

if their TGPA falls below 2.50 and their CGP is below 2.00 and the were prejously in probationaryunsatisactory readmitted, or interim unsatisfory standing;

if they receive a failure (F, J, KF, WF) in any level of student teaching/Field Experience course;

if they receive a failure in the English Examination foreacher Certi cation (EETC) for the second time;

if they were prejously in unsatisactory standing and were readmitted to theuffly by the Executive Director Student Affairs or the Committee on Student Standing and whan ot at least satis ed the conditions to attain probationary standing that were specified in the letter of readmission.



Note: Students in either the Concurrent B.Sc. and B.Ed. or the B.Mus. and B.Ed. program whereare Febr J in an Education Field Experience course, or fail the English Examination for Tieacher Certi cation (EETC) for the second time, are placed in unaction standing Although they may complete their term, there required to with dwafrom the Concurrent program he wever, contact the Eculties of Science or Music regarding application to a Bachelor of Science or a Bachelor of Mugine de

7.12.3.5 Readmission

Appeals for readmission by students in unsatisfy standing should be addressed to the Effice Director Student Affairs no later than June 1 for readmission to the III term. Readmission will be considered only when proof the readmission circumstances that each end academic performance can be provided (e.g., medical or other documentation). Students who failed the English Examination for eacher Certi cation (EETC) twice must pass the examination as part of the readmission criteria.

Students in unsatisactory standing for the second time must withutpermanentlyStudents who were placed in unsatisatory standing due to aifure in student teaching/Field Experience cannot apply for readmission for at least one full gase refer to the Student fairs Of ce website for further information:www.mcgill.ca/edu-sao/cuent/transfes.

7.12.3.6 Incomplete Standings

Standing avaits deferred or supplementadaens;

Must clear K's, L's or Supplementals;

Standing incomplete.

Students with incomplete standings in Whiteter or Summer term maygisster for the fill term, but their standing must be reset/by the end of the course change period for that term. Students whose incomplete standing changesatotsatisfobationaryor interim unsatisfctory standing may continue in the program. Students whose standing changes to "uastatisf" may not continue in their program.

Students whose standing changes to unaatisafy and who wish to ask for permission to continue in their program mustamatquest to the sociate Dean of Student frairs as soon as the placed in unsatisatory standing. Readmission will be considered only when prooten eating circumstances that afected academic performance can be interested (e.g., medical or other documentation).

Students whose standing is still incomplete by the end of course change period should immediately consult with the structure of the standard o

the designation is based on the sessional (AndWinter) GFA.

7.14.3 Scholarships and Awards

Various scholarships and vards are open to both graduating and in-course students. Full details may be found intercharaduate Strolarships and Awards Calendaravailable on the web artww.mcgill.ca/students/coses/calendarav

8 Student Teaching/Field Experience

The Of ce of Student Teaching (OST)

corequisites, restrictions, and dulty regulations that apply to the courses in which the students should consult an academic adviser for assistance.

In B.Ed programs who wish to transfer from one program to another will not be required to repeat Field Experience 1.

8.3 Student Responsibilities

Students are responsible farmfiliarizing themsels with the policies and rules worning all aspects of Field Experience, including pedagogical and professional behaiour, available atwwwmcgill.ca/ost

Students should not eage in any type of employment during Field Experience, nogreter for any course that might interfere with the successful outcome of a Field Experience.

8.3.1 Guidelines (Syllabus)

Detailed guidelines and/aluation forms for very Field Experience are posted on the OST website, arranged by program a Stuyleants are responsible for familiarizing themselves with the objecties, eof a Field Experience are posted on the OST website, arranged by program a Stuyleants are responsible for familiarizing themselves with the objecties, eof a Field Experience are posted on the OST website, arranged by program a Stuyleants are responsible for familiarizing themselves with the objecties, eof a Field Experience are posted on the OST website, arranged by program a Stuyleants are responsible for familiarizing themselves with the objecties, eof a Field Experience are posted on the OST website, arranged by program a Stuyleants are responsible for familiarizing themselves with the objecties, eof a Field Experience are posted on the OST website, are responsible for familiarizing themselves with the objecties, eof a Field Experience are posted on the OST website, are responsible for familiarizing themselves with the objecties, eof a Field Experience are responsible for the objecties of the objecti

Where a student is periencing serious dif culties in a Field Experience bas demonstrated some potential to successfully reach the required standard, the student will be granted a "D" grade. In this case, the director of the OST has the authority to grant special permission for a student to repeat a Field Experience during the meterm in which the course isfered. This special permission will be granted once only in a student's program. Studentegecei a 'D' grade are also required to repeat the corequisite seminar or other corequisite course as speci ed by the director of the corequisite seminar or course will be retained.

Students must reover a Pass grade in order to proceed in the B.Ed. prograriture (F, J, KF, WF) in any Field Experience places a student in "Unsavoitsfry Standing", requiring withdwaal from the Teacher Education Program. Students wellicin a Fall term Field Experience may be affect to continue taking courses in the program to enable transfer to anotabetti:

A student may appeal ailing grade or termination of a Field Experience by making a formal application to the transfer Director Student Affairs.

8.4.1 Termination of Field Experience

At any time, students may be rewed from their Field Experience placement at the request of the host school administrator and cooperating tetacher the request of the director of Students who are reved from a Field Experience placement will be informed of the reason for the termination and will meet with the director

Circumstances that could lead to termination includeate not limited to:

Prerequisite courses not successfully completed.

Exceeding the number of permissible xuruesed absences for corequisite courses (consult theuse/flambeach course).

Failure to pass a judicial record check, if required by the school or school board where the student is placed.

Unprofessional belvabour; behaviour that contraenes the Code of Ethics for Studeeachers.

Failure to make the improvements outlined on a Noti

8.5 Code of Professional Conduct: Code of Ethics for Student Teachers

8.5.1 Preamble - A Student-centred Perspective

Mandate

A joint subcommittee consisting of members from swanding committees of the Gulty of Education (Exculty of Education Ethical Riesew Board and Student Standing) are created to stelop a Code of Ethics for Stude Fredachers and toxemine the ways in which this Code will be communicated to students, a culty members and educational partners.

Goals and Rationale

The interests of the twStanding Committees of the could be Education in promoting appropriate ethical and professional conducted as to develop the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to and address the following Code of Ethics for Stude Teachers This code seeks to respond to a seeks to respond to a seek the following Code of Ethics This code is th

- 1. The Code addresses the interdependent duties, rights and responsibilities of student teradhersefnbers and educational partners.
- 2. By addressing common issues and needs, the Code seeks to articulate a principles that transcend disciplinary boundaries. These principles re ect the fundamentalives that are pressed in the duties, rights and responsibilities of vallived in Teacher Education.
- 3. The Code requires a reasonable its in the implementation of common principles. It is designed to help those verification, as a matter of sound ethical reasoning, to understand and respect the common principles. It is designed to help those verification, as a matter of sound ethical reasoning, to understand and respect the common principles. It is designed to help those verification, as a matter of sound ethical reasoning, to understand and respect the common principles. It is designed to help those verification, as a matter of sound ethical reasoning, to understand and respect the common principles.
- 4. The Code seeks to encourage continued re ection and thoughtful response to ethical issues. It does not **sreakndsveits** to all ethical questions or situations. Ratheit seeks to outline the guiding principles to ethical conduct and to identify major issues which are essential and implementation of this Code.

Context of an Ethics Framework for Student Teachers

The principles and norms guiding ethical conduct aveldped within an ver-evolving complex societal contet, elements of which include the need for re ective action and ethical principles.

Education is premised on a fundamental moral commitment tonael and construct knowledge and to ensure human understanding and respect for individual and collectie well-being and interity.

The moral imperative of respect translates into the follog ethical principles that assume a student-centred perceptatriculated in the Quebec Curriculum Reform and Competencies outlined Teacher Education.

8.5.2 Academic Freedom and Responsibilities

Teachers enjo and should continue to enjomportant freedoms and pilieges. However, with freedoms come responsibilities and ethical challenges. This Code of Ethics is indeping with the philosophand spirit of the New Directions that are embedded in the documental Training: Orientations, Professional Competencies" (MEQ 2001) and the reventiractice literature.

The role of the teacher and the countseof teaching have changed Thus, new resources (knowledge, skills, attitudes) are required to practice the profession and meet the challenges of teaching and learning in wetradentexts student teachers may not them seed vand to energy in professional delopment individually and with others.

8.5.3 Ethics and Law

"Teaching is governed by a legal and regulatory framework" (MEQ 2001, p. 120). g

3. Respect for Con dentiality and Praicy

Respects the con dential nature of all information related to students and attneties and will share such information in an appropriate manner only with those directly concerned with their week.

Respects the con dential 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 viriduals to be treated withairness and equity and the importance votinging con icts of interest.

5. Respect for Safety of Students

Respects the right of indiduals to expect that student teachers will eagle in practices that aim to ensure the spital, psychological and emotional safety of students.

6. Respect for Existing Ethical Codes and Professional Standards

Respects the authorityoles and responsibilities of the cooperating teacher and agrees to adhere to the responsibilities that decided as outlined in the Education to the Education and University handbooks as well as all local agreements by host school boards and schools.

7. Balancing Harm and Bene ts

Acknowledges that an potentially harmful practices (e.g., science labs anydipal education a viities) must be balanced with anticipated bene ts and conducted in a prudent, informed manner

8.5.5 Putting Principles into Practice: Venues for Communication

More than one principle may apply to avegin case or situation of meaningful and exective implementation of these principles, through the widely communicated and applied in appropriate conste

9 Department of Educational and Counselling Psychology

9.1 Location

Faculty of Education 3700 McTavish Street, Room 614 Montreal, Quebec H3A 1Y2

Telephone: 514-398-4242 Fax: 514-398-6968

Website:wwwmcgill.ca/edu-ecp

9.2 About the Department of Educational and Counselling Psychology

Educational Psychology encompasses a) the theoretical and applied study of learning, cognition, and instruztiety in faulucational settings across ages and domains; b) instructional technology and computers as very bridge in learning; c) cognities and social processes in learning; very learning and enhancement of learning and teaching; e) methods for fostering very bridge learning in learning and teaching; e) methods for fostering very bridge learning and place of phenomena related to teaching, learning and assessment in human development; and g) the impact can learning and community on children learning and development.

At the undegraduate leel, the Department of Educational and Counselling Psychology is responsible for the BFAcusteeofArts > : Education Psychology Minor Concentation for more information and for arrivety of undegraduate courses in the areas of learning, cognition and penent, inclusive education, gifted education, educational media and computers, and educational measure metabational.

In professional deelopment, the Department or certicate programs in Human Relations amdify Life Education, Inclusive Education, and First Nations and Inuit Student Personnel Services more information please consult our website wmcgill.ca/edu-ecp/undgraduate or contact the Undegraduate Program Coordinator in Educational and Counselling Psychology:

DeanThomson
Undegraduate Program Coordinator

Telephone: 514-398-4248

Email: dean.thomson@mcgill.ca

At the graduate Leel, the Department of Educational and Counselling Psychologysolflaster's degrees (M.A.) in Counselling Psychologywith major concentrations in Project (Research-based) or Professional/Internship (Pradbiaisene) and in Educational Psychology with streams in Health Professions Education, Human Deelopment, Learning Sciences and School/Applied Child Psychologyoffered are Master's of Educationg dees (M.Ed.) in Educational Psychology with streams in General Educational Psychologysive Education and Learning Sciences. Students can also obtain Doctoral degrees (Ph.D.) in Counselling Psychologychool/Applied Child Psychology and Educational Psychology with streams in Humalop Deent or Learning Sciences The department alsofers a Postdoctoral Deese Graduate Diploma in School/Applied Child Psychology and a Graduate Certi cate in Counselling Applied to Teaching. For further information, consult the most current and Pstdoctoal Studies Calendant www.mcgill.ca/students/coses/calendax

Special services terred by the Department include the McGill-EMSB Gifted Summer School (Explorations), and the Psychoeducational and Counselling Clinic, the Neuroscience Lab for Research and Education viel Openental Disorders and the International Centre fourth Gambling and High Risk Behaviour.

9.3 Department of Educational and Counselling Psychology Faculty

Emeritus Professors

Janet G. Donald; B.A., M.A.(WOnt.), Ph.D.(or.) (joint appt. withTeaching and Learning Services

Florent R. Dumont, A.B. (Col.), M.S. (S. Conn. St.), Ed.D. (Mass.)

Lynn McAlpine; B.A.(McG.), M.A.(C'dia.), Ph.D.(7).

Eigil Pedersen; B.A.(Sir G/Vms.), M.A.(McG.), Ed.D.(Har.)

HowardA. Stutt; B.A.(Qu.), B.Ed., M.Ed.(Mont.),. €.C.T.

Professors

Robert J. Braceell; B.Sc., M.A.(McM.), Ph.D.(Tor.)

JacobA. Burack; B.A.(Col.), M.S., M.Phil., Ph.D.(aYe)

Jefrey L. Derevensky; B.A.(C.W. Post), M.A., Ph.D.(McG.)s/abbatical leav/e

Nancy L. Heath; B.A.(McG.), M.Ed.(Ott.), Ph.D.(Ott.) (James McGill Pofesso)

Susanne. PLajoie; B.A., M.A. (McG.), Ph.D. (Stan.) Jámes McGill Pofesso)

Alenoush Sargan; B.A.(Pahlavi), M.Ed.(Loyola-III.), Ph.D.(McG.)

Cynthia B.Weston; B.A.(Gtown), M.L.S.(SUNY), D.Ed.(Wash.) joint appt. with Teaching and Learning Services

Associate Pofessors

Alain Breuleux; B.Sc., M.Sc., Ph.D.(Mor)tr

Martin Drapeau; B.A.(Mont), B.A.Ps.(UQTR), M.RLa

Assistant Professors

Steven R. Shav; B.S., M.Ed., Ed.S., Ph.D.(Flor

Nathan Smith; M.Sc., Ph.D.(VCU)

Faculty Lecturer

Jack de Stefno; B.A.(Loy1cC5u1tOa.B 652.648 0 1 223.993 709.84 .216 0.8431 rg 0.9804 0.9216 0.8431 RG ET 67.52 662.427 m 67.52 6284317 I 569

Part-time Instructors

Maureen Baron

Dianne Bateman

Antonio Bernardelli

Elana Bloom

Sam Bruzzese

Scott Conrod

Dominic D'Abate

Sandy Freedman

Lisa French

Karen Gazith-Cohen

David Hoida

Rita McDonough

Judith Norton

Carolyn Nelham

Monica Oala

Caroline Zanni-Dansereau

10 Department of Integrated Studies in Education

10.1 Location

Faculty of Education 3700 McTavish Street, Room 244 Montreal, Quebec H3A 1Y2

Telephone: 514-398-6960 Website:wwwmcgill.ca/edu-dise

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

Graduate and Certi cate Programs : Telephone: 514-398-1591 or 514-398-6985

Fax: 514-398-4529

10.2 About the Department of Integrated Studies in Education

The Department of Interacted Studies in Education, created in September 2001, incorporates the programfspandiostally associated with the Departments of Culture and/alues in Education, Educational Studies, Second Language Education and First Nations and Inuit Education.

The Department 66rs four-year programs for CEGEP graduates and-year programs for out-of-primce students leading to a B.Edgotee.

For B.Ed. program verviews, seewwwmcgill.ca/edu-dise/students/ungerduate/nev.

10.3 Department of Integrated Studies in Education Faculty

Chair

Steven Jordan

Director of Undergraduate Programs

Caroline Riches

Director of Graduate Programs

Mela Sarkar

Emeritus Professors

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

Margaret Gillett; B.A., Dip.Ed.(Syd.), M.A.(Russel Sage), Ed.D.(CoMJI am C. Macdonald Emeritus lofessor of Education

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

Wayne C. Hall; B.A., M.A.(Bishop's)//illiam C. Macdonald Emeritus Ofessor of Education

Norman Henchyg B.A., B.Ped., Lic.Ped.(Monty, Ph.D.(McG.)

Denise Lussier; B.A.(Coll. Jesus Marie de Sillery), M.Ed.(Boston), M.A., Ph. 2a(La

Jacques J. Reilfot; B.ès L., L.ès L., D.E.S.(Aix-Marseilles), Dip. I.E.Dr. 3rd Cy(Stras.)

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

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

Professors

Lynn ButlerKisber; B.Ed., M.Ed.(McG.), Ed.D.(Hai)v

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

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

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

Roy Lyster; B.A.(R \mathbf{g} ina), M.A.(ParisVII), B.Ed., M.Ed., Ph.D.($\mathbf{\overline{0}}$ r.)

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

ClaudiaA. Mitchell; B.A.(Brandon), M.A.(Mt. St.Vin.), Ph.D.(Alta.) (James McGill Pofesso)

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

Associate Pofessors

HelenAmoriggi; B.Sc., M.A.(Rhode Is.), Ed.D.(Boston)

Jon G. Bradle; B.A., M.A.(Sir G.Wms.)

Eric Caplan; B.A.(Tor.), M.A.(Hebrew), Ph.D.(McG.)

Michael Doxtater; B.A.(McM.), M.Sc., Ph.D.(C nell)

Michael Hoechsmann; B.A., M.A.(S. Fraser), Ph.Dr.()T

Steven Jordan; B.A.(Knt), M.Sc.(Lond.), Ph.D.(McG.)

Kevin McDonough; B.A., B.Ed., M.Ed.(Alta.), Ph.D.(III.)

Christopher S. Milligan; B.A.(Sir G.Wms.), Dip.Ed., M.Ed.(McG.), Ed.D.(7.)

Ronald Morris; B.Ed., M.A., Ph.D.(McG.)

Joan Russell; B.Mus., L.Mus., M.Ed., Ph.D.(McG.)

Mela Sarkar; B.A.(McG.), M.A., Ph.D.(C'dia)

Associate Pofessors

Gale Seiler; B.Sc. (Arrleigh Dickinson), M.Sc. (Montana), Ph.D. (Penn.)

Shaheen ShafifB.A., M.A., Ph.D.(S. Fraser)

Doreen Stark-Meyerring; B.Ed.(Potsdam), M.A.(N. Data), Ph.D.(Minn.)

Shirley Steinberg; B.Ed., M.Ed.(Leth.), Ph.D.(Penn. St.)

Teresa Strong-Wison; B.A.(Calg.), B.A., Dip.Ed.(McG.), M.A., Ph.D.(W. (BC))

Carolyn E.Turner; B.A.(Ariz.), M.Ed., Ph.D.(McG.)

Boyd White; B.A.(Sir G.Wms.), B.FA.(C'dia), M.FA.(Inst.Allende, Guanajuato), Ph.D.(C'dia)

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

ElizabethWood; B.F.A.(York (Can.)), B.F.A.(C'dia), Dip.Ed., M.A., Ph.D.(McG.)

Assistant Professors

Spencer Boudreau; B.A.(Don Bosco), B.A., M.A.(Sherh.D.(C'dia)

Abdul Aziz Choudry; Grad.Dip., Ph.D.(C'dia)

Bronwen Low; B.A.(Qu.), M.A.(Br. Col.), Ph.D.(York)

Annie Savard; B.Ed., M.A., Ph.D.(Læal)

Sylvia Sklar; Dip.Ed.(McG.), B.A.(C'dia), M.Ed.(McG.)

Associate Members

Brian J.Alters; B.Sc., Ph.D.(USC)//illiam Dawson Sholar)

Richard Harris; B.A.(Oxf.), D.Phil.(Sus.)

Adrienne Care Hurley; B.A.(Colo.), M.A.(Mich.), Ph.D.(Calif.)

Lynn McAlpine; B.A.(McG.), M.A.(C'dia), Ph.D.(Tr.)

Faculty Lecturers

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

Charlotte Husse B.A.(Wheaton), M.A.(Cdia), M.F.A.(W. Wilson), Ph.D.(McG.)

Caroline Riches; B.A., M.Sc.(Alta.), Ph.D.(McG.)

Louise Saroie; B.S.S.(Laal), M.A.(Ott.)

Donna-Lee Smith; B.A., M.A.(C'dia)

SharronWall; B.A., Dip.Human Relations, M.A.(McG.)

Adjunct Professors

Abigail Anderson; B.A., Dip.Ed., M.A.(McG.)

Luci Bobbish-Salt; B.Ed.(UQ&)

Tino Bordonaro; B.A.(Bishop's), M.A.(McG.)

Noel Burke; B.Ed., M.Ed.(McG.) Gretta Chambers; B.A.(McG.)

Bachelor of Education (Kindergarten and Elementar

The freshman year is the time to etalktroductory level courses in English, as well as top be areas that are not normally etalkas teachable subject areas within B.Ed. programs (e.g. Sociology Political Science, etc.). Students should also estigate the possibility of taking one of the First Seminar courses feeted by the Eculty of Arts or the Eculty of Science.

In addition, in consultation with the program advissedents may select courses from the recommended course listbellber courses. The list includes English literature courses that may be usedated the academic component of the Secondary English course required are seral French Second Language (FRSL) courses for which placement tests are required to determine the appurely riate le

EAPR 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 Shakspeare
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 andWritten French 1
FRSL 211D2	(3)	Oral andWritten French 1
RELG 207	(3)	The Study of World Religions 1

Required Courses (45 credits)

EDEC 201	(1)	FirstYear 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)	FourthYear 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 Eluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses (15 credits)

15 credits selected as described welo

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
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Philosophy of Education

3 credits from:

EDEC 260 (3) Philosophical **5**undations

EDEC 261 (3) Philosophy of Catholic Education

Media, Technology, Computers and Education

3 credits from:

EDEC 262 (3) Media, Technology and Education

Integrating Educational

And must also task

3 credits of Secondarteaching Methods for the teachable subject area

(Note: this additional Methods course counts as a 3-creditvelentthe program.)

Students in other secondary subject areas (i.e., Mathematics, Social Sciences or Scientenalouty) who select English as their other "teachable subject area" take

18 credits selected as follows:

3 credits of "Required Literature"

3 credits from the "Communication/Language Learning/Linguisitcs" course list

6 credits from the "Literature" course list

6 credits from the "Media/Cultural Studies" course list with a minimum of 3 credits at thev@00-le

And

3 credits of "SecondarTeaching Methods - English"

(Note: this additional Methods course counts as a 3-creditveleotthe program.)

Required Literature

3 credits:

EDES 366 (3) Literature forYoungAdults

Communication/Language Learning/Linguisitcs

6 credits for students follwing the Secondary English (option 1 or option 2), or

3 credits for students in other secondary subject areas with English as their other "teachable" subject area

EDEC 203	(3)	Communication in Education	
EDSL 305	(3)	L2 Learning: Classroom Settings	
EDSL 350	(3)	Essentials of English Grammar	
ENGL 340	(3)	History of the English Language	
LING 200	(3)	Introduction to the Study of Language	
LING 201	(3)	Introduction to Linguistics	
LING 355	(3)	LanguageAcquisition 1	

Literature

Secondary English Option 1 studentsetal credits of "Literature" courses 1 153.251 660.52 TrT5credits at the 300-le

ENGL 321	(3)	Caribbean Fiction	
ENGL 325	(3)	ModernAmerican Fiction	
ENGL 327	(3)	Canadian Prose Fiction 1	
ENGL 329	(3)	English Novel: 19th Century 1	
ENGL 330	(3)	English Novel: 19th Century 2	
ENGL 331	(3)	Literature Romantic Period 1	
ENGL 339	(3)	Canadian Prose Fiction 2	
ENGL 347	(3)	GreatWritings of Europe 1	
ENGL 348	(3)	GreatWritings of Europe 2	
ENGL 361	(3)	Poetry of the 20th Century 1	
ENGL 362	(3)	Poetry of the 20th Century 2	
	(3)	Theatre HistoryThe Long Eighteenth Century	

- Literature
- Media/Cultural Studies

Electives (6 credits)

6 credits of electries

Note: Students who ke chosen to do 36 credits in one teachable subject and 18 credits in another will use 3 creditæsfteltæk the Secondary Teaching Methods course needed for their second teachable subject.

10.6 Bachelor of Education (B.Ed.) - Secondary Mathematics (120 credits)

The Bachelor of Education (B.Ed.) Secondary Mathematics program requires 120 credits and leads to teacher certi cation. Studentstwbmbteted Quebec CEGE, French Baccalaureate, International Baccalaureate, or at least one years tyristudies 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 stronglibe teachers for the secondary schoolell his integrated program consists of academic studies, professional studies, and school-based practicum complications is supported by studies in pedagogyrriculum and educational foundations.

The Secondary Mathematics programyides students with the learning opportunities needed to become pro cient Mathematics teachers.

Please note that graduates of teacher education programs are recommended by the Quebec certication to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). The more information about teacher certication in Quebec, please refer tachtey Fof Education section under "Oview of Faculty Programs," "Underaduate Education Programs," and "Que Teacher Certication."

Freshman Program

Students normally complete 30 credits in their freshman (U0) year

The freshman year is the time to dain troductory level courses in Mathematics, as well as toplere areas that are not normally daken teachable subject areas within B.Ed. programs (e.g. Sociology Political Science, etc.). Students should also stigate the possibility of taking one of the First Year Seminar courses feefed by the Eculty of Arts or the Eaculty of Science.

Students in the Secondary Mathematics program must complete three Math prerequisite courses in their freshtathlyeas, MATH 140 and MATH 141

In addition, students select courses from the recommended liest detectable rourses in consultation with the program ad Viser French Second Language (FRSL) courses suggested require a placement test to determine the appropriate vectors le

EAPR 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 andWritten French 1
FRSL 211D2	(3)	Oral andWritten French 1
MATH 133	(3)	LinearAlgebra 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)	FirstYear Professional Seminar
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
FDFC 254	(1)	Second Professional Seminar (Secondary)

EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	FourthYear 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 Eluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described twelo

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 Fundations
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 EducationaTechnology in Classrooms
FDPT 204	(3)	Educational Media 1

For students with a background in computers or other media applications in education, whier doubtourses may be substituted for the weebo

EDPT 341	(3)	Instructional Programming 1
EDPT 420	(3)	Media Literay for Education

Secondary Teaching Methods - Mathematics

6 credits:

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

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

Secondary Mathematics Subject Area (54 credits)

Secondary Mathematics students complete 54 credits selected in consultation with the program adviser in options. When are expected to have completed the prerequisite courses THA133, MATH 140 and MATH 141 or their equialents. Freshman students will eather as part of their freshman program.

Students entering from CEGEP should only choose this programy in the a strong background in their CEGEP mathematics courises (MTAH 133, MATH 140 and MATH 141) are considered CEGER that only students entering a 5-year program (out-of-inpute and directly from high school) are eligible to take m. Students entering with adved standing without thing completed these prerequisites will be required to make up any de ciencies in these courses and above the degree requirements.

Option 1

30 credits from the list of "Required Mathematics Courses" and

24 credits from the list of "Complementary Mathematics Courses"

0r

Option 2:

30 credits from the list of "Required Mathematics Courses" and

6 credits from the list of "Complementary Mathematics Courses"

And

18 credits of designated courses in another "teachable" subject area (English, Social Sciences, or Steachard langer - see these Secondary Education programs for courses)

And must also tak

3 credits of Secondarijeaching Methods for the teachable subject area

(Note: this additional Methods course counts as a 3-creditveleothe program.)

Students in other secondary subject areas (i.e., English, Social Sciences or S

18 credits from the list of "Mathematics Courses for Other Secondary Subject"

And

3 credits of "SecondarTeaching Methods - Mathematics"

(Note: this additional Methods course counts as a 3-creditvelentthe program.)

Required Mathematics Courses

30 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 Subj Areas."

COMP 202	(3)	Introduction to Computing 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	LinearAlgebra
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 Philosophof Mathematics
MATH 348	(3)	Topics in Geometry

Complementary Mathematics Courses

24 credits from the list belofor Secondary Mathematics Option 1 students or

6 credits from the list belo 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 Subjects."

COMP 230	(3)	Logic and Computability
MATH 314	(3)	Advanced Calculus
MATH 317	(3)	NumericalAnalysis
MATH 318	(3)	Mathematical Logic
MATH 326	(3)	Nonlinear Dynamics and Chaos
MATH 329	(3)	Theory of Interest
MATH 339	(3)	Foundations of Mathematics
MATH 340	(3)	Discrete Structures 2
MATH 346	(3)	NumberTheory

Mathematics Courses for Students in Other Secondary Subject Areas

Students in other secondary subject areas selecting Mathematics as their "other teachable subject the fault of the secondary subject the secondary subject the secondary subject to t

MATH 222	(3)	Calculus 3
MATH 223	(3)	LinearAlgebra
MATH 315	(3)	Ordinary Differential Equations
MATH 323	(3)	Probability
MATH 324	(3)	Statistics
MATH 348	(3)	Topics in Geometry

Electives (6 credits)

6 credits of electries

Note: Students who ke chosen to do 36 credits in one teachable subject and 18 credits in another will use 3 creditæsfteltæt the Secondary Teaching Methods course needed for their second teachable subject.

10.7 Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture (120 credits)

Bachelor of Education (B.Ed.) - Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture program requires 120 credits and lead to teacher certication. Students who hand completed Quebec CEGEPench Baccalaureate, International Baccalaureate, or at least one yearrsftyning 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 stronglibe teachers for the secondary schoolell his integrated program consists of academic studies, professional studies, and school-based practicum complications is supported by studies in pedagogyrriculum and educational foundations.

The Secondary Social Sciences - History and Citizenship, Ethics and Religious Culture programs stodents with the learning opportunities needed to become pro cient Social Science teachers with a strongyladge base in History and Ethics and Religion.

Please note that graduates of teacher education programs are recommended by thin Quebec certication to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). F more information about teacher certication in Quebec, please refer tachty Fof Education section under "Eview of Faculty Programs," "Underaduate Education Programs," and "Quebeccher Certication."

Freshman Program

Students normally complete 30 credits in their freshman (U0) year

The freshman year is the time to eaktroductory leel courses in a teachable subject area, as well aplore areas that are not normally eaks within B.Ed. programs (e.g. Sociology sychology Political Science, etc.). Students should also stigate the possibility of taking one of the First Seminar courses dered by the Eculty of Arts or the Eculty of Science.

In addition, in consultation with the program advisseudents may select courses from the recommended course list be list includes History, Geograph and Religious Studies courses that may be uswed that academic component of the Secondary Social Sciences course requirements. Also included are seeral French Second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which placement tests are required to determine the appendix of the second Language (FRSL) courses for which the second Language (FRSL) courses for w

EAPR 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 andWritten French 1
FRSL 211D2	(3)	Oral andWritten French 1
GEOG 200	(3)	Geographical Persp eret is:World Environmental Problems
GEOG 205	(3)	Global Change: Ast, Present and Future
GEOG 210	(3)	Global Places and Peoples
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
HIST 214	(3)	Introduction to European History
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)	FirstYear 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)	FourthYear 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 Eluation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses (15 credits)

15 credits selected as described belo

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 Fundations
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 Educationalechnology in Classrooms
EDPT 204	(3)	Educational Media 1

For students with a background in computers or other media applications in education, white god tourses may be substituted for the weato

EDPT 341	(3)	Instructional Programming 1
EDPT 420	(3)	Media Literay for Education

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 speci cations:

36 credits of History and Citizenship courses

9 credits of "Required History" courses from the list

and

27 credits "Complementary History" distuited as follows:

6 - 9 credits in European History

6 - 9 credits in Asian, African, American, Latin American or Ancient History

12 credits at the 300- or 400/Hz of history courses on social history ender history dentity, culture, religion and alues, political life and institutions, con ict, wealth and prerty, science and health

(Students may consult the course lists for History prografesed by the Eculty of Arts for guidance on course choices.)

And

18 credits chosen from the Ethics and Religious Culture course list as speci wed belo

Required History

9 credits:

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

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

Ethics and Religious Culture

18 credits as speci ed bello

6 credits from:

*Note: Either EDER 309 or RELG 204 may be selectetchlort both.

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

6 credits from:

EDER 209	(3)	Search for Authenticity
EDER 395	(3)	Moral Values and HumaAction
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Ethics in Practice
PHIL 230	(3)	Introduction to Moral Philosoph1
PHIL 237	(3)	Contemporary Moral Issues

6 credits from:

CATH 200	(3)	Introduction to Catholicism
EDER 252	(3)	Understanding andeaching Jerish Life
EDER 290	(3)	Guide to Reading the Bible
EDER 319	(3)	Teaching the Holocaust
EDER 394	(3)	Philosophy of God
RELG 270	(3)	Religious Ethics and the Einonment

Electives (6 credits)

6 credits

10.8 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, Gepgreptm requires 120 credits and leads to teacher certi cation. Students who have not completed Quebec CEGEPench Baccalaureate, International Baccalaureate, or at least one yearerstrurstudies 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 strongling teachers for the secondary schoolelle his integrated program consists of academic studies, professional studies, and school-based practicum complitive this is supported by studies in pedagogyrriculum and educational foundations.

The Secondary Social Sciences - History and Citizenship, Geographtram provides students with the learning opportunities needed to become pro cient Social Science teachers with a strongwide base in History and Geograph

Please note that graduates of teacher education programs are recommended by this Quebec certication to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). To more information about teacher certication in Quebec, please refer tachtey Fof Education section under "Oview of Faculty Programs," "Underaduate Education Programs," and "Que Teacher Certication."

Freshman Pr(w)Tj0 Tw1 67.52 D21 8.1 Tf6841L9

EDPE 304	(3)	Measurement and El uation
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses (15 credits)

15 credits selected as described twelo

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 Fundations
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 EducationaTechnology in Classrooms
FDPT 204	(3)	Educational Media 1

For students with a background in computers or other media applications in education, white doubturses may be substituted for the webo

EDPT 341	(3)	Instructional Programming 1
EDPT 420	(3)	Media Literator for Education

Secondary Teaching Methods - Social Sciences

6 credits:

EDES 334	(3)	Teaching Secondary Social Studies 1
EDES 434	(3)	Teaching Secondary Social Studies 2

Secondary Social Sciences - History and Citizenship, Geography Subject Area (54 credits)

Secondary Social Sciences - History and Citizenship, Geographents complete 54 credits selected in consultation with the program adviser with the following speci cations:

36 credits of History and Citizenship courses

12 credits at the 300- or 400/Hz of history courses on social history ender history dentity, culture, religion and alues, political life and institutions, con ict, wealth and poerty, science and health

(Students may consult the course lists for History prografesed by the Eculty of Arts for guidance on course choices.)

And

18 credits of Geographchosen for the "Geographcourse list or chosen from the courses that comprise the B.A. Minor Concentration Geographm.

Required History

9 credits

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

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

Geography

18 credits from:

ENVR 202	(3)	The Evolving Earth
GEOG 200	(3)	Geographical Persperentias:World Environmental Problems
GEOG 205	(3)	Global Change: St, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 216	(3)	Geograph of the World Economy
GEOG 217	(3)	Cities in the ModerNVorld
GEOG 272	(3)	Earth's Changing Surte
GEOG 301	(3)	Geograph of Nunavut
GEOG 309	(3)	Geograph of Canada
GEOG 311	(3)	Economic Geograph
GEOG 331	(3)	Urban Social Geograph

Note: In consultation with the program advissatudents may choose their Geographurses from those that comprise the B.A. Minor Concentration Geography program.

Electives (6 credits)

6 credits

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

Revision, Fall 2010. Start of revision.

The Bachelor of Education (B.Ed.) - Secondary Science **Tacks** hology program requires 120 credits and leads to teacher certi cation. Students who ha not completed Quebec CEGERench Baccalaureate, International Baccalaureate, or at least one years truns tudies 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 stroingible teachers for the secondary schoolelle his integrated program consists of academic studies, professional studies, and school-based practicum computations is supported by studies in pedagogyrriculum and educational foundations.

The Secondary Science a Trechnology program prodes students with the subject matterpretise in the Luing World, Earth and Space, the Material World and the Technologica World needed to teach the secondary science curriculum in Quebec schools.

Please note that graduates of teacher education programs are recommended by the Quebec certication to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). The more information about teacher certication in Quebec, please refer tachtey Fof Education section under "Oview of Faculty Programs," "Underaduate Education Programs," and "Que Teacher Certication."

Freshman Program - Basic Sciences

Students who start their Education program in U0 normally complete 30 credits in their freshman year

Freshman in the Science a Technology program must complete the 29 to 30 credits of basic science courses listed their rst year of studies.

F

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

Complementary Courses (15 credits)

15 credits selected as described twelo

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 B undations
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 EducationaTechnology in Classrooms
EDPT 204	(3)	Educational Media 1

For students with a background in computers or other media applications in education, white god to be substituted for the webo

EDPT 341	(3)	Instructional Programming 1
EDPT 420	(3)	Media Literay for Education

Secondary Teaching Methods - Science and Technology

6 credits

EDES 335	(3)	Teaching Secondary Science 1
EDES 435	(3)	Teaching Secondary Science 2

Secondary Science and Technology (54 credits)

54 credits in designated science courses selected via psubject matter pertise in the four areas of:

- the MateriaWorld
- Earth and Space
- the Living World
- theTechnologicaWorld

Note: Students entering this program from CEGEP showled trampleted the basic science explaints in CEGEP the 100-level basic sciences are considered CEGEP level and only students entering a 5-year program (out-of-inpute and directly from high school) are eligible to address. Students entering with advanced standing without briang completed these prerequisites (or their varients) will be required to make any deciencies in these courses and above the deree requirements.

Overview of the 54 credits for the program:

A minimum of 12 credits at the 300 vitel or above;

39 credits of courses across the 4 subject areas:

- 3 credits of Statistics
- 3 credits of History of Science
- 9 credits minimum from courses on the big World
- 9 credits minimum from courses on Earth and Space
- 9 credits minimum from courses on the Matel/Malrd
- 6 credits minimum from courses on freechnologicaWorld

15 credits of complementary courses either spread across the 4 subjects areas or concentrated in 1 subject area. Students who plan to teach Grade 11 Che or Physics should concentrate their 15 complementary credits in the Mathemial.

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 from:

BIOL 210	(3)	Perspecties of Science
HIST 238	(3)	Histories of Science
HIST 319	(3)	The Scienti c Reolution
HIST 350	(3)	Science and the Enlightenment

The Living World - Required

6 credits:

^{*}Note: Students select either BIOL 200 or LSCI 2002 fbot both.

BIOL 200*	(3)	Molecular Biology
BIOL 206	(3)	Methods in Biology of Oganisms
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 orinth & Moirld in the areas of:

Cell and Molecular Biology

Human and Oganismal Biology

Populations, Ecosystems, and Extion

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

The Living World - Human and Organismal Biology

BIOL 205	(3)	Biology of Organisms
EDKP 292	(3)	Nutrition andWellness
EDKP 395	(3)	Exercise Phisiology
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 Dution
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/Behaiour Field Course
BIOL 352	(3)	Vertebrate Evolution
ENVB 305	(3)	Population & Community Ecology
EPSC 334	(3)	Invertebrate Reontology

Earth and Space - Complementary

Students select a minimum of 9 credits to a maximum of 24 credits from courses on Earth and Space withinting stockic cations: 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 the cred

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)	Water in the Atmosphere
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 Rysics

EPSC 330	(3)	Earthquakes and Earth Structure
EPSC 350	(3)	Tectonics
EPSC 405	(3)	Planetary Geology

CHEM 287*	(2)	IntroductoryAnalytical Chemistry
CHEM 297*	(1)	IntroductoryAnalytical Chemistry Laboratory
CHEM 301	(3)	Modern Inoganic Chemistry 2
CHEM 302	(3)	Introductory Oganic Chemistry 3
CHEM 307	(3)	Analytical Chemistry of Pollutants
CHEM 319	(3)	Chemistry of Enegy, Storage and Utilization
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 392	(3)	Integrated Inoganic/Organic Laboratory
MATH 222	(3)	Calculus 3
PHYS 224	(3)	Physics of Music
PHYS 230	(3)	Dynamics of Simple Systems
PHYS 232	(3)	Heat and Waves
PHYS 241	(3)	Signal Processing
PHYS 242	(2)	Electricity and Magnetism
PHYS 257	(3)	Experimental Methods 1
PHYS 258	(3)	Experimental Methods 2
PHYS 271	(3)	Introduction to Quantum Rysics
PHYS 328	(3)	Electronics
PHYS 331	(3)	Topics in Classical Mechanics
PHYS 333	(3)	Thermal and Statistical Phics
PHYS 339	(3)	Measurements Laboratory in Generalyនាំ៤s
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 342	(3)	Majors Electromagnetite/aves
PHYS 432	(3)	Physics of Fluids
PHYS 434	(3)	Optics
PHYS 436	(3)	Modern Physics
PHYS 439	(3)	Majors Laboratory in Modern Phics
PHYS 446	(3)	Majors Quantum Phsics

The Technological World

Students select a minimum of 6 credits to a maximum of 15 credits from courses enthelogical World.

^{**}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)	Introduction to Computing 1
COMP 206	(3)	Introduction to Software Systems
COMP 280*	(3)	History and Philosophof Computing
COMP 364	(3)	ComputerTools for Life Sciences
MATH 204	(3)	Principles of Statistics 2
PHYS 334	(3)	Advanced Materials

Revision, Fall 2010. End of revision.

^{*}Note: Students may takeither COMP 102 or COMP 280tbnot both.

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

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 offeed by the Ficulty of Science and the Ficulty of Education. Separatethe Bachelor of Science where requires 90 credits (or 120 credits for students who was not completed the basic sciences) and the Bachelor of Educations dequires 120 credits. In the concurrent program, the requirements for the towdegrees are combined in such anywhat students complete 135 (or 165 credits) to full all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. gatee are recommended by the Uni

Note:

CHEM 115 (not open to students who are taking weltaken CHEM 110 or CHEM 120)

CHEM 120 (not open to students who/baalen CHEM 115)

BIOL 111	(3)	Principles: Oganismal 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)	Introduction to Computing 1
ESYS 104	(3)	The Earth System
MATH 133	(3)	LinearAlgebra 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)	CalculusA

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 Vaves

Second phisics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to takelective courses may choose them from introductory coursesedfby departments in the fulties of Science or offits. A list of recommended courses is found at http://www.gill.ca/science/sousa/bsc/freshman/appedoCertain coursesfefed by other aculties may also be taken, but some restrictions apply

Consult the SOUSA website at http://www.cgill.ca/science/sousa/bsc/course/outside for more information about taking courses froacoulties.f

Education Component (60 credits)

60 credits of Education Component consists of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

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

The English Language Requirement (EDEC 215) must been trankthe fall semester following the Freshmaniear

EDEC 201	(1)	FirstYear 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)	FourthYear 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 Education
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses

6 credits selected as folks:

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

3 credits, one of the three folloing 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 towfollowing courses:

EDEC 260*	(3)	Philosophical Fundations
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 p**greet af specialization** in cell/molecular biology Advising Note: Freshman students should were 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:

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Enironment
CHEM 181	(3)	World of Chemistry: F od
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 Escti

B.ScThaneletaties unation be talknown in Majortchay/Whoath the 3:0e dito 760 units in etable before graduation are satis ed.

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

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Biology - Cell/Molecular with Method Ph Teachers is jointly offered by the Education Separatethe Bachelor of Science on the Education (or 120 credits for students who has not completed the basic sciences) and the Bachelor of Education dequires 120 credits. In the concurrent program, the (99 cation of Education dependence) and the Bachelor of Education dequires 120 credits.

Science Complementary

The seenth course is chosen from the list Approved Freshman Science Courses.

Notes:

- 1. Students who live not studied all of BiologyChemistry and Pylsics at the grade 12/lel 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 7 courses from Atheroved Freshman Science Courses list, particularly those who wish to be open for their choice of major

Electives

Students wishing to takelective courses may choose them from introductory coursesedfby departments in theactulties of Science or Afrts. A list of recommended courses is found at http://www.gill.ca/science/sousa/bsc/freshman/appedoCertain coursesfefed by otheraculties may also be taken, but some restrictions apply

Consult the SOUSA website at http://www.cgill.ca/science/sousa/bsc/course/outside for more information about taking courses froacoultiess.f

Education Component (60 credits)

60 credits of Education Component consists of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

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

The English Language Requirement (EDEC 215) must been tiankthe Eill semester following the Freshman/Year

EDEC 201	(1)	FirstYear 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)	FourthYear 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)

3 credits, one of the towfollowing courses:

EDEC 260*	(3)	Philosophical Fundations
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 permet of sepecialization in cell/molecular biology Advising Note: Freshman students should be a

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)	IntroductoryAstrophysics
PHYS 225	(3)	MusicalAcoustics

Modern Ph

Graduates of the B.Ed. gitee are recommended by the Vernisity to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Queber Certi cation. For more information about teacher certi cation in Quebec, please refer tactually Fof Education section under "Diview of Faculty Programs," "Underraduate Education Programs," and "Querecher Certi cation."

The Major Concentration Biology - @anismal with Minor Chemistry is one of the ninæriations of the program and allo students to focus their Science degree in Oganismal Biology with a subspecialization in Chemistry

To ful I 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 foiling:

(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 -ganismal
- 18 credits of Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electies, of which at least 3 credits must be Science Eterctidepending on Inomany credits count toward both the B.Sc. and the B.Ed. degrees

For details on the counting of credits/ward both dgrees (double-counting) visit the program website http://www.gill.ca/scienceforteachers/.

B.Sc. Freshman Program

Students who enter Science in U0 will normally beintered in the Science Freshman Program until complete their rst year hey must consult an adviser in the Science Of ce for Underaduate Studentdvising (SOUSA) to obtain advice and appear of their course selection. Full details available on the SOUSA website at http://www.cgill.ca/science/sousacademic advising is alsovailable by emailThe address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least 7 courses from the plantage of Freshman Science courses, selected as followed by the course of the cours

General Math and Science Breadth

Six of the freshman courses must satisfy one of thewforlgo

Option 1) 2 courses from MTAH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MTAH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seventh course is chosen from the list Approved Freshman Science Courses.

Notes:

- 1. Students who live not studied all of BiologyChemistry and Pylsics at the grade 12/lel 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 7 courses from proved Freshman Science Courses list, particularly those who wish to be open for their choice of major
- 3. Students entering the Freshman Program mustare of the department speci c requirements when selecting their courses. Detailed advising information is available at http://wwwmcgill.ca/science/sousa/bsc/freshman.
- 4. The maximum number of courses per term, required, complementary and electric.

List of Approved Freshman Science Courses

Select the approach courses according to the instructions/abo

Note:

CHEM 115 (not open to students who are taking we halen CHEM 110 or CHEM 120)

CHEM 120 (not open to students who/eatalen CHEM 115)

BIOL 111	(3)	Principles: Oganismal Biology
BIOL 112	(3)	Cell and Molecular Biology
CHEM 110	(4)	General Chemistry 1
CHEM 115	(4)	Accelerated General Chemistry: Giants in Science

(4)

EDEC 262*	(3)	Media,Technology and Education
EDEC 351	(2)	Third Professional Seminar (Secondary)
EDEC 404	(3)	FourthYear 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 Eluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses

6 credits selected as follows:

3 credits, one of the three follwing courses:

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

3 credits, one of the towfollowing courses:

EDEC 260*	(3)	Philosophical 5 undations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology -52 nools

^{*}Note: The courses maded with an asterisk are counted ward both degrees. They will count as "electies" for the B.Sc. degree, although a grade of "C" or better is required.

BIOL 308	(3)	Ecological Dynamics
DIOL 300	(0)	Ecological Dynamics

Complementary Courses

12 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behvaour
BIOL 307	(3)	Behavioural Ecology/Sociobiology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaiour 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 Oceanograph
BIOL 465	(3)	Conservation Biology

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

Minor Chemistry (18 credits)

Required Courses

18 credits selected as foll/s:

Substitutions for these by more $\mbox{\it adve}\mbox{\it courses}$ may be made at the discretion of the adviser

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212*	(4)	Introductory Oganic Chemistry 1
CHEM 222*	(4)	Introductory Oganic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	IntroductoryAnalytical Chemistry
CHEM 297	(1)	IntroductoryAnalytical Chemistry Laboratory

Additional Science Courses (15 credits)

15 credits selected as follows:

12 credits:

BIOL 210	(3)	Perspecties 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:

^{*}Note: denotes courses with CEGEP equents.

CHEM 180	(3)	World of Chemistry: Enironment
CHEM 181	(3)	World of Chemistry: F od
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 ₩scti

The electives must be chosen in such anythat the credit counts needed for graduation are satis ed.

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

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Bioglagism (all with Minor Phsics for Teachers is jointly offered by the Eculty of Science and the Education. Separatethe Bachelor of Science de

Notes:

- 1. Students who we not studied all of BiologyChemistry and Pylsics at the grade 12/lel 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 7 courses from the reshman Science Courses list, particularly those who wish to see and options open for their choice of major
- 3. Students entering the Freshman Program mustate of the department speci c requirements when selecting their courses. Detailed advising information is available at http://www.ncgill.ca/science/sousa/bsc/freshman.
- 4. The maximum number of courses per term, required, complementary and elective.

List of Approved Freshman Science Courses

Select the approach courses according to the instructions vabo

Note:

CHEM 115 (not open to students who are taking we haven CHEM 110 or CHEM 120)

CHEM 120 (not open to students who/baalen CHEM 115)

BIOL 111	(3)	Principles: Oganismal 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)	Introduction to Computing 1
	(3)	The Earth System

Students wishing to takelective courses may choose them from introductory coursesedfby departments in theactulties of Science or Afrts. A list of recommended courses is found at http://www.gill.ca/science/sousa/bsc/freshman/appedoCertain coursesfefed by otheraculties may also be taken, but some restrictions apply

Consult the SOUSA website at http://wwwcgill.ca/science/sousa/bsc/course/outside for more information about taking courses froacolties.f

Education Component (60 credits)

EDEC 260*	(3)	Philosophical Fundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Biology - Organismal (37 credits)

The Major Concentration Biology - Garnismal is a planned sequence of courses designed to permittee despecialization in ganismal biology

Advising Note: Freshman students should were that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Required Courses*

28 credits selected as follows:

* Students who have already taken CHEM 212 or its equalent will choose another appropriate complementary course, to be exploit adviser Regardless of the substitution, students muse tableast 36 credits in this program.

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 Oganisms
BIOL 215	(3)	Introduction to Ecology and Mution
BIOL 304	(3)	Evolution
BIOL 308	(3)	Ecological Dynamics
CHEM 212*	(4)	Introductory Oganic Chemistry 1

Complementary Courses

9 credits selected from:

BIOL 303	(3)	Developmental Biology
BIOL 305	(3)	Animal Diversity
BIOL 306	(3)	Neural Basis of Behvaour
BIOL 307	(3)	Behavioural Ecology/Sociobiology
BIOL 310	(3)	Biodiversity and Ecosystems
BIOL 331	(3)	Ecology/Behaiour Field Course
BIOL 342	(3)	Marine Biology
BIOL 350	(3)	Insect Biology and Control
BIOL 352	(3)	Vertebrate Evolution
BIOL 373	(3)	Biometry
BIOL 427	(3)	Herpetology
BIOL 435	(3)	Natural Selection
BIOL 441	(3)	Biological Oceanograph
BIOL 465	(3)	Conservation Biology

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

Minor Physics (18 credits)

Required Course

3 credits

PHYS 257	(3)	Experimental Methods 1	
Complementary Course	s		
15 credits to be selected a			
one of:			
PHYS 230	(3)	Dynamics of Simple Systems	
PHYS 251	(3)	Honours Classical Mechanics 1	
	()		
one of:			
PHYS 232	(3)	Heat andWaves	
PHYS 253	(3)	Thermal Physics	
one of:			
PHYS 241	(3)	Signal Processing	
PHYS 258	(3)	Experimental Methods 2	
one of:			
PHYS 214	(3)	IntroductoryAstrophysics	
PHYS 225	(3)	MusicalAcoustics	
PHYS 260	(3)	Modern Physics and Relatity	
PHYS 271	(3)	Introduction to Quantum Rysics	
one of:			
PHYS 340	(3)	Majors Electricity and Magnetism	
PHYS 350	(3)	Honours Electricity and Magnetism	
Additional Science Courses (15 credits)			
BIOL 210	(3)	Perspecties of Science	
MATH 203	(3)	Principles of Statistics 1	

Electives (5 credits)

MATH 222

MATH 223

MATH 314

5 credits, of which at least 2 credits must be Science Educti

(3)

(3)

(3)

The electives must be chosen in such aywithat the credit counts needed for graduation are satis ed.

Calculus 3 LinearAlgebra

Advanced Calculus

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

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry with Minor Bībelaghéos is jointly offered by the Eculty of Science and the Eculty of Education. Separatethe Bachelor of Science where requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Educatione dequires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such anythat students complete 135 (or 165 credits) to full all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. gitee are recommended by the Warrisity to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Queber Certi cation. For more information about teacher certi cation in Quebec, please refer tactually Fof Education section under "Oview of Faculty Programs," "Underraduate Education Programs," and "Quebecher Certi cation."

The Major Concentration Chemistry with Minor Biology is one of the nameations of the program and allo students to focus their Science research in Chemistry with a subspecialization in Biology

To ful I 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 **foiling**:

(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 Electies, of which at least 3 credits must be Science Electidepending on Inomany credits count toward both the B.Sc. and the B.Ed. degrees

For details on the counting of credits/vterd both derees (double-counting) visit the program website http://www.ajill.ca/scienceforteachers/.

B.Sc. Freshman Program

Students who enter Science in U0 will normally beistered in the Science Freshman Program until themplete their rst year hey must consult an adviser in the Science Of ce for Underaduate Stude Atdvising (SOUSA) to obtain advice and appear their course selection. Full details available on the SOUSA website at http://www.cgill.ca/science/sousAcademic advising is alsovailable by emailThe address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least 7 courses from the print freshman Science courses, selected as follows

General Math and Science Breadth

Six of the freshman courses must satisfy one of thewforlign

Option 1) 2 courses from MIAH and 4 courses from BIOL, CHEM or PHYS;

01

Option 2) 3 courses from MAH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seenth course is chosen from the list Approved Freshman Science Courses.

Notes:

- 1. Students who live not studied all of BiologyChemistry and Pylsics at the grade 12/lel or equivalent are strongly advised to include at least one course in the missing discipline in their freshman program.
- Many students will complete more than 7 courses from tiperoved Freshman Science Courses list, particularly those who wish to see and options open for their choice of major
- 3. Students entering the Freshman Program mustate of the department speci c requirements when selecting their courses. Detailed advising information is available at http://www.mcgill.ca/science/sousa/bsc/freshman.
- 4. The maximum number of courses per term, required, complementary and elective.

List of Approved Freshman Science Courses

Select the approach courses according to the instructions vabo

Note:

CHEM 115 (not open to students who are taking wehalen CHEM 110 or CHEM 120)

CHEM 120 (not open to students who/balalen CHEM 115)

0		
BIOL 111	(3)	Principles: Oganismal 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)	Introduction to Computing 1
ESYS 104	(3)	The Earth System
MATH 133	(3)	LinearAlgebra 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)	CalculusA
Second calculus cours	se, one of:	
MATH 141	(4)	Calculus 2
MATH 151	(4)	Calculus B
First physics course, o	one of:	
PHYS 101	(4)	Introductory Physics - Mechanics
PHYS 131	(4)	Mechanics and Vaves
Second phsics course	e, one of:	

Electives

PHYS 102

PHYS 142

(4)

(4)

Students wishing to takelective courses may choose them from introductory coursesedfby departments in theactulties of Science or Afrts. A list of recommended courses is found at http://www.gill.ca/science/sousa/bsc/freshman/appedoCertain coursesfefed by otheraculties may also be taken, but some restrictions apply

Introductory Physics - Electromagnetism

Electromagnetism and Optics

Consult the SOUSA website at http://www.cgill.ca/science/sousa/bsc/course/outside for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for more information about taking courses from the sousal background for the s

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

The English Language Requirement (EDEC 215) must been tiankthe Edll semester following the Freshmanfear

EDEC 201	(1)	FirstYear 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)	FourthYear 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 Education
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses

6 credits selected as folks:

3 credits, one of the three folloing 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 towfollowing courses:

EDEC 260*	(3)	Philosophical Fundations
EDEC 261*	(3)	Philosophy of Catholic Education

Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certi ed by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Queb are advised to taken appropriate B.Sc. program in Chemistry

The Major Concentration is a planned sequence of courses designed to pegreeadlepecialization in this discipline.

Required Courses*

18 credits

^{*}Note: The courses maded with an asterisk are counted at both degrees. They will count as "electies" for the B.Sc. degree, although a grade of "C" or better is required.

*Note: Required courses tank at CEGEP or elauhere that are not credited ward the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to occeeding their creditalue. Regardless of the substitution, students muse tankleast 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Oganic Chemistry 1
CHEM 222	(4)	Introductory Oganic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	IntroductoryAnalytical Chemistry
CHEM 297	(1)	IntroductoryAnalytical 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 Oganic Chemistry 3
CHEM 307	(3)	Analytical Chemistry of Pollutants
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	InstrumentaAnalysis 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 531	(3)	Chemistry of Inoganic Materials
CHEM 571	(3)	Polymer Synthesis
CHEM 582	(3)	Supramolecular Chemistry
CHEM 591	(3)	Bioinorganic Chemistry

Minor Biology (24 credits)

Required Courses

15	credit	S
15	credit	5

BIOL 200	(3)	Molecular Biology
BIOL 201	(3)	Cell Biology and Metabolism
BIOL 202	(3)	Basic Genetics
		Biology of Organisms

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Edscti

The electives must be chosen in such asynthat the credit counts needed for graduation are satis ed.

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

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration Chemistry withy stime for Freachers is jointly offered by the Eculty of Science and the Eculty of Education. Separate the Bachelor of Science give requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Educative dequires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such anythat students complete 135 (or 165 credits) to full all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. gitee are recommended by the Venisity to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebeurer Certi cation. For more information about teacher certi cation in Quebec, please refer tachty Fof Education section under "Eview of Faculty Programs," "Underraduate Education Programs," and "Quebecher Certi cation."

The Major Concentration Chemistry with Minory Sics is one of the ninewiations of the program and allo students to focus their Science in Chemistry with a subspecialization in Sics.

To ful I 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 **foiling**:

(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 Rylsics
- 15 credits of Additional Science Courses

6 credits of Electies, of which at least 3 credits must be Science Eterctidepending on Inormany credits count toward both the B.Sc. and the B.Ed. degrees

For details on the counting of creditsward both degrees (double-counting) visit the program website http://www.gill.ca/scienceforteachers/.

B.Sc. Freshman Program

Students who enter Science in U0 will normally bestmered in the Science Freshman Program until themplete their rst year hey must consult an adviser in the Science Of ce for Underaduate Studentdvising (SOUSA) to obtain advice and appear of their course selection. Full details available on the SOUSA website at http://www.cgill.ca/science/sousacademic advising is alsovailable by emailThe address is newstudentadvising.science@mcgill.ca.

Students normally complete 30 credits which must include at least 7 courses from the pixtoxed Freshman Science courses, selected as follows

General Math and Science Breadth

Six of the freshman courses must satisfy one of thewforlign

Option 1) 2 courses from MIAH and 4 courses from BIOL, CHEM or PHYS;

or

Option 2) 3 courses from MIAH and 3 courses from BIOL, CHEM or PHYS.

Science Complementary

The seenth course is chosen from the listAppfproved Freshman Science Courses.

Notes:

- 1. Students who we not studied all of BiologyChemistry and Pysics at the grade 12/viel or equivalent are strongly advised to include at least one course in the missing discipline in their freshman program.
- 2. Mary students will complete more than 7 courses from the over Freshman Science Courses list, particularly those who wish to see and options open for their choice of major

- 3. Students entering the Freshman Program mustate of the department speci c requirements when selecting their courses. Detailed advising information is available at http://wwwncgill.ca/science/sousa/bsc/freshman.
- 4. The maximum number of courses per term, required, complementary andeplective.

List of Approved Freshman S

60 credits of Education courses:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

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

The English Language Requirement (EDEC 215) must been trankthe [all semester following the Freshman/fear

EDEC 201	(1)	FirstYear 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)	FourthYear 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 Elu ation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

Complementary Courses

6 credits selected as folks:

*Note: The courses maded with an asterisk are counted ward both degrees. They will count as "electies" 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 twfollowing courses:

EDEC 260*	(3)	Philosophical 5 undations		
EDEC 261*	(3)	Philosophy of Catholic Education		

Major Concentration Chemistry (36 credits)

The Major Concentration Chemistry is not certi ed by the Ordre des Chimistes du Québec. Students interested in pursuing a career in Chemistry in Queb are advised to taken appropriate B.Sc. program in Chemistry

The Major Concentration is a planned sequence of courses designed to pegreeoclalization in this discipline.

Required Courses*

18 credits selected as follows:

*Note: Required courses tank at CEGEP or elsatere that are not credited/utand the Concurrent B.Sc. and B.Ed. must be replaced by courses from the Complementary Course List equal to sceeding their creditalue. Regardless of the substitution, students muse tankleast 36 credits in this program.

CHEM 203	(3)	Survey of Physical Chemistry
CHEM 212	(4)	Introductory Oganic Chemistry 1
CHEM 222	(4)	Introductory Oganic Chemistry 2
CHEM 253	(1)	Introductory Physical Chemistry 1 Laboratory
CHEM 281	(3)	Inorganic Chemistry 1
CHEM 287	(2)	IntroductoryAnalytical Chemistry
CHEM 297	(1)	IntroductoryAnalytical 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 Oganic Chemistry 3
CHEM 307	(3)	Analytical Chemistry of Pollutants
CHEM 334	(3)	Advanced Materials
CHEM 367	(3)	InstrumentaAnalysis 1
CHEM 381	(3)	Inorganic Chemistry 2
CHEM 382	(3)	Organic Chemistry: Natural Products
CHEM 531	(3)	Chemistry of Inoganic 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 to be selected as follso

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)	IntroductoryAstrophysics
PHYS 225	(3)	MusicalAcoustics
PHYS 260	(3)	Modern Physics and Relatity
PHYS 271	(3)	Introduction to Quantum Pysics
one of:		
PHYS 340	(3)	Majors Electricity and Magnetism
PHYS 350	(3)	Honours Electricity and Magnetism

Additional Science Courses (15 credits)

BIOL 210	(3)	Perspecties of Science
MATH 203	(3)	Principles of Statistics 1
MATH 222	(3)	Calculus 3
MATH 223	(3)	LinearAlgebra
MATH 314	(3)	Advanced Calculus

Electives (6 credits)

6 credits, of which at least 3 credits must be Science $\ensuremath{\overline{\textbf{\textit{Tds}}}} \text{cti}$

The electives must be chosen in such aywthat the credit counts needed for graduation are satis ed.

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

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration with Minor Biology for Teachers is jointly offered by the Eculty of Science and the Eculty of Education. Separatethe Bachelor of Science where requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Educatione dequires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such anythat students complete 135 (or 165 credits) to full all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. gitee are recommended by the tensity to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebeter Certi cation. For more information about teacher certi cation in Quebec, please refer tactulty. For Education section under "Eview of Faculty Programs," "Undegraduate Education Programs," and "Quebeccher Certi cation."

The Major Concentration Psics with Minor Biology is one of the ninavations of the program and allo students to focus their Science in Plysics with a subspecialization in Biology

To ful I 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 foiling:

(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
- 24 credits of Minor Biology
- 9 credits of Additional Science Courses

6 credits of Electies, of which at least 3 credits must be Science Electi

MATH 133	(3)	LinearAlgebra and Geometry
PSYC 100	(3)	Introduction to Psychology
First calculus course	e, one of:	
MATH 139	(4)	Calculus 1 with Precalculus
MATH 140	(3)	Calculus 1
MATH 150	(4)	CalculusA
Second calculus cou	urse, 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 Vaves
Second phsics cours	se, one of:	
PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to takelective courses may choose them from introductory coursesedfby departments in theactulties of Science or Afrts. A list of recommended courses is found at http://www.gill.ca/science/sousa/bsc/freshman/appedoCertain coursesfefed by otheraculties may also be taken, but some restrictions apply

Consult the SOUSA website at http://www.gill.ca/science/sousa/bsc/course/outside for more information about taking courses from the sousa background from the sousa background

Education Component (60 credits)

60 credits of Education Component consists of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

*Note: The courses maded with an asterisk are counted about both degrees. They will count as "election as "el

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 Eluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses

6 credits selected as folks:

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

3 credits, one of the three follo

Complementary Courses

6 credits selected from:

PHYS 214	(3)	IntroductoryAstrophysics
PHYS 225	(3)	MusicalAcoustics
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-leel course appaced by an adviser

Minor Biology (24 credits)

24-25 credits for the Minor Biology selected as fortso

15 credits of required courses

9-10 credits of complementary courses

Required Courses

1	5	cr	e	d	its

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 Mution

Complementary Courses

9 - 10 credits of complementary courses, CHEM 212 and 6 selected from the Biology Department's fedingse, at the 300-keel or above.

*Note: Students who live already takin CHEM 212 or its equalent will choose another appropriate course, to be applied the adviser

CHEM 212* (4) Introductory Oganic Chemistry 1

Additional Science Courses (9 credits)

9 credits selected as folks:

6 credits:

BIOL 210	(3)	Perspecties of Science	
MATH 203	(3)	Principles of Statistics 1	

plus 3 credits, one additional yelics (PHYS) course appared by the Plysics Department.

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Edscti

The electives must be chosen in such anywhat the credit counts needed for graduation are satis ed.

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

The Concurrent Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.) - Major Concentration With Minor Chemistry for Teachers is jointly offered by the Eculty of Science and the Eulty of Education. Separatethe Bachelor of Science where requires 90 credits (or 120 credits for students who have not completed the basic sciences) and the Bachelor of Educatione dequires 120 credits. In the concurrent program, the requirements for the two degrees are combined in such anythat students complete 135 (or 165 credits) to full all the requirements for graduation for both the B.Sc. and the B.Ed.

Graduates of the B.Ed. gitee are recommended by the tensity to the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS) for Quebeter Certi cation. For more information about teacher certi cation in Quebec, please refer tactulty. For Education section under "eview of Faculty Programs," "Undegraduate Education Programs," and "Quebeccher Certi cation."

The Major Concentration Phics with Minor Chemistry is one of the ninæriætions of the program and alls students to focus their Science meeting in Physics with a subspecialization in Chemistry

To ful I 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 **foiling**:

(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 Concentrationy/8/ncs
- 18 credits of the Minor Chemistry
- 15 credits of Additional Science Courses

6 credits of Electries, of which at least 3 credits must be Science Extending on known any credits count two

Note:

CHEM 115 (not open to students who are taking weltalen CHEM 110 or CHEM 120)

CHEM 120 (not open to students who/batalen CHEM 115)

BIOL 111	(3)	Principles: Oganismal 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)	Introduction to Computing 1
ESYS 104	(3)	The Earth System
MATH 133	(3)	LinearAlgebra 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)	CalculusA

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 Vaves

Second phsics course, one of:

PHYS 102	(4)	Introductory Physics - Electromagnetism
PHYS 142	(4)	Electromagnetism and Optics

Electives

Students wishing to takelective courses may choose them from introductory courseedfby departments in theactulties of Science or offits. A list of recommended courses is found at http://www.gill.ca/science/sousa/bsc/freshman/appedoCertain coursesfefed by otheraculties may also be taken, but some restrictions apply

Consult the SOUSA website at http://www.cgill.ca/science/sousa/bsc/course/outside for more information about taking courses froacoulties.f

Education Component (60 credits)

60 credits of Education Component consists of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

*Note: The courses maded with an asterisk are counted/atrol both degrees. They will count as "electrics 2165 Br6a3 degrees and this accounted to the counter of the counter

The English Language Requirement (EDEC 215) must been trankthe fall semester following the Freshman/Lear

EDEC 201	(1)	FirstYear 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)	FourthYear 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 Eluation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusive Schools

ComplementC 254ourth Field Experience (Secondary)971 16sional6 cremitshma.56 8.51 7 0 0 1 420.05 7041 1 ent(971 16sionalws:nt (EDEC 21

MATH 222	(3)	Calculus 3
MATH 223	(3)	LinearAlgebra
MA0 1A(3)	(3)	Advanced Calculus

plus 3 credits, one of:

CHEM 180	(3)	World of Chemistry: Evironment
CHEM 181	(3)	World of Chemistry: Fod
CHEM 182	(3)	World of Chemistry:Technology
CHEM 183	(3)	World of Chemistry: Drugs

plus 3 credits, one additional PHics (PHYS) course appred by the Physics Department.

Electives (6 credits)

6 credits, of which at least 3 credits must be Science Eduscti

The electives must be chosen in such aywithat the credit counts needed for graduation are satis ed.

- 1. Students who we not studied all of BiologyChemistry and Pylsics at the grade 12/lel or equivalent are strongly advised to include at least one course in the missing discipline in their freshman program.
- 2. Mary students will complete more than 7 courses from the reshman Science Courses list, particularly those who wish to be a particularly those who wish the particularly those who wish the particularly those w
- 3. Students entering the Freshman Program mustate of the department speci c requirements when selecting their courses. Detailed advising information is available at http://wwwncgill.ca/science/sousa/bsc/freshman.

4.

Consult the SOUSA website at http://www.cgill.ca/science/sousa/bsc/course/outside for more information about taking courses froacoulthess.f

Education Component (60 credits)

60 credits of Education Component consists of:

54 credits of required courses

6 credits of complementary courses

Required Courses

54 credits

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

The English Language Requirement (EDEC 215) must been trankthe Eall semester following the FreshmaYiear

EDEC 201	(1)	FirstYear 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)	FourthYear 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 Elu ation
EDPI 309*	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses

6 credits selected as folks:

3 credits, one of the three folloing 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 towfollowing courses:

EDEC 260*	(3)	Philosophical Fundations
EDEC 261*	(3)	Philosophy of Catholic Education

^{*}Note: The courses maded with an asterisk are counted whole both degrees. They will count as "electries" for the B.Sc. degree, although a grade of "C" or better is required.

Major Mathematics (54 credits)

Program Prerequisites

Students entering the Major program are normal/beeted to have completed the courses bullor their equialents. Otherwise through the required to make up any de ciencies in these courses and above the 54 credits for the program.

MATH 133	(3)	LinearAlgebra and Geometry
MATH 140	(3)	Calculus 1
MATH 141	(4)	Calculus 2

Required Courses

27 credits

Where appropriate, Honours courses may be substituted foratequiMajor courses.

*Students select either MTAH 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 Comple 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 folloing speci cations:

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

COMP 202	(3)	Introduction to Computing 1
MATH 324	(3)	Statistics
MATH 338	(3)	History and Philosophof Mathematics
MATH 348	(3)	Topics in Geometry

at least 3 credits from:

MATH 317	(3)	NumericalAnalysis
MATH 335	(3)	ComputationaAlgebra
MATH 340	(3)	Discrete Structures 2

12 credits from:

It is highly recommended that students include TMA318, MATH 328, MATH 339 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	
		Matrix Numerical	

70 Music academic credits,

9 music electie credits,

3 non-music electre credits.

Program Prerequisites - Freshman Program

35 credits

Prerequisite Courses

35 credits distribted as follows:

2 credits (1 credit per ternA)ssigned Small Ensemble

4 credits (2 credits per term) Basic Ensem I brazining

6 credits of Non-Music Electies

and 23 credits in the following course list:

Students who can demonstrate through auditions and placement testsythat/ethreastered the material inyanof the courses belowill be exempt from them and may proceed to more and/ord courses. First-year students enrolled in the Bachelor of Music program/er/loom/impleted the Quebec Diploma of Collegial Studies (Diplôme d'études cogléles) in a Music concentration or explient, or students transferring from otherwarsities or colleges, and have successfully completed a course in the histol//estern music, with a grade of C or betweit be exempted from the rst-yeal/Vestern Musical Traditions requirement (MUHL 186).

Western MusicaT

MUIT 204	(3)	PercussionTechniques	
MUIT 356	(3)	Jazz Instruction: PhilosophandTechniques	
Theory			
11 credits:			
MUTH 250	(3)	Theory and Analysis 3	
MUTH 251	(3)	Theory and Analysis 4	
MUTH 350	(3)	Theory and Analysis 5	
MUTH 461	(2)	Choral and KeyboardArranging	
Musicianship			
4 credits:			
MUSP 240	(2)	MusicianshipTraining 3	
MUSP 241	(2)	MusicianshipTraining 4	
Music History			
3 credits:			
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 distrib 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 oryanourse with a pre x 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 folWoodwind
MUSP 335	(2)	Musicianship for Brass
MUSP 346	(2)	Post-Tonal Musicianship
MUSP 350	(2)	Musicianship for Pianists
MUSP 353	(2)	Musicianship folloice
MUSP 354	(2)	Introduction to Improisation 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 pre x.

Performance

4 credits from:

MUEN 563	(2)	JazzVocalWorkshop
MUEN 572	(2)	CappellaAntica
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 electies

3 credits of non-music eleves

Required Education Courses (45 credits)

*Note: Students tack either EDEE 355 or EDPE 304tbnot both.

EDEA 206	(1)	1stYear Professional Seminar
EDEA 407	(3)	FinalYear Professional Seminar Music
EDEA 442	(3)	Elementary Music Curriculum and Instruction
EDEA 472	(3)	Secondary Music Curriculum and Instruction
EDEC 215	(0)	English Language Requirement
EDEC 247	(3)	Policy Issues in Quebec Education
EDEE 355*	(3)	Classroom-based Eluation
EDES 350	(3)	Classroom Practices (Secondary)
EDFE 205	(2)	First Field Experience (Music)

Those who have completed a Bachelor of Musicoglee may apply for advanced standing in the Bachelor of Education in Music program inadvalty of Education Application to the Bachelor of Education in Music may be made onlinevaltmcgill.ca/applying Information is sailable on that site or may be obtained from:

Enrolment Services
McGill University
845 Sherbrook StreetWest
Montreal, QC H3A 2T5
Telephone: 514-398-3910

Fax: 514-398-4193

RELG 207 (3)	The Study of World Religions 1
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Required Courses (75 credits)

EDEC 201	(1)	FirstYear 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 (Kingdenten/Elementary)
EDEC 405	(3)	FourthYear Professional Seminar (K/Elem)
EDEE 223	(3)	LanguageArts
EDEE 230	(3)	Elementary School Mathematics
EDEE 250	(2)	The Kindegarten Classroom
EDEE 260	(3)	Reading Methods - Early Childhood
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	ScienceTeaching
EDEE 280	(3)	Geograply, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 325	(3)	Children's Literature
EDEE 332	(3)	Teaching Mathematics 1
EDEE 353	(3)	Teaching and Learning in the Elementary Classroom
EDEE 355	(3)	Classroom-based Eluation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindgarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools

Complementary Courses (18 credits)

18 credits of courses selected as described/belo

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 **5**undations

EDEC 261 (3) Philosophy of Catholic Education

Media, Technology, Computers and Education

3 credits from:

Note: Courses identi ed with an asterisk ("") are recommended for students with a background in computers or other media applications in education.

EDEC 262	(3)	Media, Technology and Education
EDPT 341*	(3)	Instructional Programming 1
EDPT 420*	(3)	Media Literary for Education

Ethics, Values, or Religion

3 credits from:

EDER 309	(3)	The Religious Quest
EDER 395	(3)	Moral Values and HumaAction
EDER 473	(3)	Living with Insight
EDER 494	(3)	Ethics in Practice
RELG 207	(3)	The Study ofWorld Religions 1

Kindergarten and Elementary Teaching Methods - Art, Drama, or Music

3 - 6 credits from:

EDEA 332	(3)	Art Curriculum and Instruction - Elementary
EDEA 342	(3)	Curriculum and Instruction in Drama Education
EDEA 345	(3)	Music Curriculum and Instruction for Generalists

Kindergarten & Elementary Teaching Methods - Physical Education or English Second Language

0 - 3 credits from:

Students may select both their methods courses from the lixet fabroArt, Drama, or Music.

Note: Courses mard with an asterisk ("") has EDSL 350 "Essentials of English Grammar" as a prerequisite.

EDKP 332	(3)	Physical Education Curriculum and Instruction
EDSL 330*	(3)	L2 Literacy Development
EDSL 447*	(3)	Methods inTESL 1

Kindergarten & Elementary Education - Subject Areas (21 credits)

21 credits selected in consultation with the program adviser as sollo

12 credits in "teachable" subject area courses of the elementary school curriculum from the Wiston Bello English, Ethics and Religious Culture, French, Mathematics, Music, Natural Sciencesy Blbal Education, and Social Studies.

And

9 credits, 3 credits from each of yathree subject areas not chosen value α

No more than 12 credits may be selected from simgle course list.

Art

Students may select up to 12 credits from this list and Andrihlistory (ARTH) courses.

EDEA 204	(3)	Drawing
EDEA 205	(3)	Painting 2

EDEA 241	(3)	BasicArt Media for Classroom
EDEA 296	(3)	Basic Design
EDEA 304	(3)	Painting 3
		Painting 4

ENGL 349	(3)	English Literature and Fiklore 1
ENGL 378	(3)	Media and Culture
ENGL 386	(3)	Fans, Celebrities Audiences
ENGL 388	(3)	Studies in Popular Culture
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

Ethics and Religious Culture

Students may select up to 12 credits from this list. Students may also choose other Religious Studies (RELG) courses with the permission of the program adviser

Note: Courses madd with an asterisk ("") may be used as Ethics and Religious Culture courses or as Social Studies.

EDER 207	(3)	'Who is Christ?'
EDER 209	(3)	Search forAuthenticity
EDER 252	(3)	Understanding an Teaching Jerish Life
EDER 290	(3)	Guide to Reading the Bible
EDER 309	(3)	The Religious Quest
EDER 394	(3)	Philosophy of God
EDER 395	(3)	Moral Values and HumaAction
EDER 461	(3)	Society and Change
EDER 473	(3)	Living with Insight
EDER 494	(3)	Ethics in Practice
JWST 211	(3)	Jewish Studies 1: Biblical Period
JWST 240*	(3)	The Holocaust
PHIL 200	(3)	Introduction to Philosoph1
PHIL 230	(3)	Introduction to Moral Philosoph1
PHIL 237	(3)	Contemporary Moral Issues
RELG 203	(3)	Bible andWestern Culture
RELG 204	(3)	Judaism, Christianity and Islam
RELG 207	(3)	The Study of World Religions 1
RELG 252	(3)	Hinduism and Buddhism
RELG 253	(3)	Religions of EasAsia
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Einonment
RELG 271	(3)	Sexual Ethics
WMST 200*	(3)	Introduction toWomen'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 (HMA) courses at the 200 viel or higher

Note: Students admitted with CEGEP mathematics (overlapint) may not task 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 selects ancourse with the MUGTMUHL, MUIT, or MUCT subject codes.

With the permission of the program advissatudents without a formal music background may choose courses with the bublect code.

^{**}Note: Courses markd with two asterisks ("**") require a placement test.

EDEA 314	(3)	Instruments in the Classroom
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
MUTH 110**	(3)	Melody and Counterpoint
MUTH 111**	(3)	Elementary HarmonandAnalysis

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: Evironment	
CHEM 181	(3)	World of Chemistry: Fod	
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 Enironment	
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 takup to 12 credits of Psical Education (EDKP) courses from the list with the permission of the Department of KinesiologyysiodIPh Education.

*Note: EDKP 292 is vailable as an academic Mical Education cours All other EDKP courses are restricted.

EDKP 204	(3)	Health Education
EDKP 205	(3)	StructuraAnatomy
EDKP 206	(3)	Biomechanics of Human Mement

^{*}Note: Courses markd with a single asterisk ("*") require permission from the Schulich School of Musigistere

Students normally complete 30 credits in their freshman (U0) year

The freshman year is the time to etalktroductory-leel courses in the subjects taught in Elementary school, as wellxed to etalk taken as teachable subject area courses within B.Ed. programs (e.g. Soels of the subject area courses within B.Ed. progra

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 mely admitted students to the B.Ed. Kinglerten and Elementary Education program on throughly of Education website at http://www.mcgill.ca/edu-dise/students/ungleaduate/ner/#KE.

Required Courses (108 credits)

EDEA 242	(3)	Cultural Skills 1
EDEA 243	(3)	Cultural Skills 2
EDEC 201	(1)	FirstYear 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 (Kingdenten/Elementary)
EDEC 260	(3)	Philosophical Fundations
EDEC 405	(3)	FourthYear Professional Seminar (K/Elem)
EDEE 223	(3)	LanguageArts
EDEE 230	(3)	Elementary School Mathematics
EDEE 250	(2)	The Kindegarten Classroom
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	ScienceTeaching
EDEE 280	(3)	Geograply, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences
EDEE 291	(3)	CulturalValues and Socialization
EDEE 325	(3)	Children's Literature
EDEE 332	(3)	Teaching Mathematics 1
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 Eduation
EDER 360	(2)	Ethics and Religious Culture (K/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindarten/Elementary)
EDFE 306	(8)	Third Field Experience (Kindgarten/Elementary)
EDFE 406	(7)	Fourth Field Experience (K/Elem)
EDKP 241	(3)	Aboriginal Physical Activities
EDKP 292	(3)	Nutrition andWellness
EDPE 300	(3)	Educational Psychology
EDPI 309	(3)	Exceptional Students
EDPI 341	(3)	Instruction in Inclusie Schools
EDSL 247	(3)	Second Language EducationAboriginal Communities
EDSL 305	(3)	L2 Learning: Classroom Settings
EDSL 447	(3)	Methods inTESL 1

RELG 207 (3) The Study of World Religions 1

Complementary Courses (12 credits)

12 credits of courses selected as described/belo

Language - Complementary Component

6 credits from the follwing language courses chosen according to language group and: uenc

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		
EDEC 403	(3)	The Dialects of Inuktitut
EDEE 249	(3)	Inuktitut Orthograph and Grammar
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

Media, Technology, Computers and Education - Complementary Component

Mohawk Second Language 1

Mohawk Language 1

Mohawk Language 2

3 credits from:

EDEE 296

EDEE 297

EDEE 298

EDEC 262	(3)	Media, Technology and Education
EDPT 341	(3)	Instructional Programming 1
EDPT 420	(3)	Media Literay for Education

(3)

(3)

(3)

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	
10.22 Bachelor of	Education (B.Ed.) - Kindergarten and Elementary Jewish Studies (126 credits)	

Bachelor of Education (B.Ed.) - Kinderten and Elementary wish Studies program requires 126 credits and leads to teacher certi cation. Students who

have not completed Quebec CEGERench Baccalaureate, International Baccalaureate, or at least one yearstyristudies prior to commencing the B.Ed. must also complete a minimum of 30 credits of freshman courses (in addition to the 126-credit program) for a total of 156 credits.

The Kindegarten and Elementary program leads to certi cation to teach children between the ages of 5 and 11 yegast (kinaded elementary school).

The program consists of academic and professional courses, as well as studies in pedagogy and educational foundations. Each year of thicker ogram pro a school-based practicum.

The Jevish Studies option requires an additional 6 credits of courses and is addressed to students enrolled in the studies as well as general studies. Students are encouraged to acquire a strong background with blidays, and Jevish history prior to registering in the option. Students lacking the ability to teach in Nestmeuld consider spending a semester at an Israediraity or seek otherwenues to improve their language skills.

Please note that graduates of teacher education programs are recommended by the boundary of the Quebec Ministère de l'Éducation, du Loisir et du Sport (MELS). The more information about teacher certication in Quebec, please refer tactulary of Education section under **Oview of Faculty Programs, "Underaduate Education Programs," and "Que faculty Programs,"

Freshman Program

Students normally complete 30 credits in their freshman (U0) year

The freshman year is the time to etaintroductory leel courses in the subjects taught in Elementary school, as well and taken as teachable subject area courses within B.Ed. programs (e.g. Solles) and possibility of taking one of the Firstear Seminar courses effect by the Eculty of Arts or the Eaculty of Science.

In addition, in consultation with the program advisedudents may select courses from the recommended course listobelither courses. Included in the list are seeral French Second Language (FRSL) courses for which placement tests are required to determine the appendatisatedecommended are any 100- or 200-level courses with the subject codes of the codes of the course with the subject codes of the codes of the

EAPR 250	(3)	Research Essay & Rhetoric
EDEE 325	(3)	Children's Literature
EDEM 220	(3)	Contemporary Issues in Education
EDES 366	(3)	Literature forYoungAdults
FRSL 101D1	(3)	Beginners' French
FRSL 101D2	(3)	Beginners' French
FRSL 207D1	(3)	Elementary French 01
FRSL 207D2	(3)	Elementary French 01

Oral acul 0 0 1 525.1876.231 0 0 49 Seitm (atary Frnch 01)Tj 1 0 0 1 165.231 0 0 49 Tm ((3))Tj 1 0 0 1 7023

EDEC 253	(1)	Second Professional Seminar (Kingdenten/Elementary)
EDEC 405	(3)	FourthYear Professional Seminar (K/Elem)
EDEE 223	(3)	LanguageArts
EDEE 230	(3)	Elementary School Mathematics
EDEE 250	(2)	The Kindegarten Classroom
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	ScienceTeaching
EDEE 280	(3)	Geograph, History and Citizenship Education
EDEE 282	(2)	Teaching Social Sciences

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

Kindergarten and Elementary Jewish Studies - Subject Area - Group 1 (12 credits)

In consultation with the Jurish Studies option program advise tudents select 12 credits from the course sets/burinth no more than one 3-credit course from each set.

from each set.		
One of:		
JWST 345	(3)	Introduction to Rabbinic Literature
RELG 306	(3)	Rabbinic Judaism
One of:		
JWST 314	(3)	Denominations in NortAmerican Judaism
SOCI 327	(3)	Jews in NorthAmerica
One of:		
JWST 365	(3)	Modern Jewish Ideologies
JWST 366	(3)	History of Zionism
One of:		
POLI 347	(3)	Arab-Israel Con ict, Crisis, Peace
POLI 437	(3)	Politics in Israel
One of:		
HIST 207	(3)	Jewish History: 400 B.C.E. to 1000
JWST 216	(3)	Jewish Studies 2: 400 B.C.E 1000
One of:		
HIST 219	(3)	Jewish History: 1000 - 2000
JWST 217	(3)	Jewish Studies 3: 1000 - 2000
One of:		
(3)JWST 367	(3)	Studies in Hebre Language and Literature

Note: Only one of the three courses identi ed with an asterisk ("") may be selected.

JWST 327	(3)	A Book of the Bible
JWST 328	(3)	A Book of the Bible
JWST 329	(3)	A Book of the Bible
JWST 330	(3)	A Book of the Bible
JWST 331*	(3)	Bible Interpretation/Medical Ashkenaz
JWST 332*	(3)	Bible Interpretation/SefrdicTradition
JWST 510*	(3)	Jewish Bible Interpretation 1

Kindergarten & Elementary Education - Subject Areas (6 credits)

6 credits of teachable subject area courses:

3 credits from two of the following elementary school curriculum course lists; English, Ethics and Religious Culture, French, Mathematics, Music, Natural Sciences, Psical Education, and Social Studies.

Art

EDEA 204	(3)	Drawing
EDEA 205	(3)	Painting 2
EDEA 241	(3)	BasicArt Media for Classroom
EDEA 296	(3)	Basic Design
EDEA 304	(3)	Painting 3
EDEA 305	(3)	Painting 4
EDEA 307	(3)	Drawing 2
EDEA 410	(3)	Aesthetics an Art for the Classroom
EDEA 496	(3)	Sculpture 1
EDEA 497	(3)	Sculpture 2

English

*Note: Starting with the 2009-10 academic year East Children's Literature is a required course for the Kgaden and Elementary Education program and is included in the "Required Courses" list. Students admitted to the program in prior years may select this course as a teachable subject course for Eng

CLAS 203	(3)	Greek Mythology
COMS 200	(3)	History of Communication
COMS 210	(3)	Introduction to Communication Studies
COMS 300	(3)	Media and Modernity in the 20th Century
COMS 310	(3)	Media and Feminist Studies
COMS 320	(3)	Media and Empire
COMS 330	(3)	Media in Cultural Life
EDEC 308	(3)	Learning toWrite Fiction
EDEC 309	(3)	Learning toWrite Poetry
EDEE 325*	(3)	Children's Literature
EDES 366	(3)	Literature forYoungAdults
EDSL 350	(3)	Essentials of English Grammar
ENGL 200	(3)	Survey of English Literature 1
ENGL 201	(3)	Survey of English Literature 2
ENGL 204	(3)	English Literature and the Bible

ENGL 215	(3)	Introduction to Shatspeare
ENGL 225	(3)	American Literature 1
ENGL 226	(3)	American Literature 2
ENGL 227	(3)	American Literature 3
ENGL 228	(3)	Canadian Literature 1
ENGL 229	(3)	Canadian Literature 2
ENGL 230	(3)	Introduction toTheatre Studies
ENGL 237	(3)	Introduction to Study of a Literaryo
ENGL 275	(3)	Introduction to Cultural Studies
	is	Methods of CulturaAnalysis

RELG 253	(3)	Religions of EasAsia
RELG 256	(3)	Women in Judaism and Islam
RELG 270	(3)	Religious Ethics and the Einonment
RELG 271	(3)	Sexual Ethics
WMST 200*	(3)	Introduction toWomen's Studies

French

Students may choose 3 credits of French as a Second Language (FRSL) courses and/or French (FREN) courses.

Mathematics

Students may choose 3 credits of Mathematics T(M)Acourses at the 200 viel or higher

Note: Students admitted with CEGEP mathematics (owndeput) may not tack MATH 111 for credit. MATH 111 is a recommended course for freshman students.

MATH 111 (3) Mathematics for Education Students

Music

Students may choose 3 credits from this list. Students may also selections course with the MUGTMUHL, MUIT, or MUCT subject codes.

With the permission of the program advissatudents without a formal music background may choose courses with the bub ject code.

^{**}Note: Courses marked with two asterisks ("**") require a placement test.

EDEA 314	(3)	Instruments in the Classroom
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
MUTH 110**	(3)	Melody and Counterpoint
MUTH 111**	(3)	Elementary HarmonandAnalysis

Natural Sciences

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: Enironment
CHEM 181	(3)	World of Chemistry: Fod
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 Exironment
EPSC 180	(3)	The Terrestrial Planets
EPSC 181	(3)	Environmental Geology

^{*}Note: Courses maded with a single asterisk ("*") require permission from the Schulich School of Musigistere

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 tack3 credits of Pyrsical Education (EDKP) courses from the list with the permission of the Department of Kinesiology sinal Education.

*Note: EDKP 292 is railable as an academic Prical Education cours All other EDKP courses are restricted.

EDKP 204	(3)	Health Education
EDKP 205	(3)	StructuralAnatomy
EDKP 206	(3)	Biomechanics of Human Mement
EDKP 224	(3)	Foundations of Movement Education
EDKP 261	(3)	Motor Development
EDKP 292*	(3)	Nutrition andWellness
EDKP 391	(3)	Physiology in Sport and Excise
EDKP 495	(3)	Scienti c Principles of Training
EDKP 498	(3)	Sport Psychology

Social Studies

Students may task3 credits from this list belowhich represents a balance of History (HIST), Geogra(GIEOG) and Citizenship courses seried by seeral departments Anthropology (ANTH) and Sociology (SOCI) courses not on the list/hoentay not be counted as Social Studies courses in the program requirements. Students may deather as elecutes only

Students may select other History courses aswiello

Any 3 credits in European History

Any 3 credits in Asian, African or Latin American History

Any 3 credits in an topic or eld of history

Note: Courses madd with an asterisk ("") may be used as Ethics and Religious Culture or Social Studies courses.

ANTH 202	(3)	Comparative Cultures
ANTH 205	(3)	Cultures of the World
CANS 200	(3)	Introduction to the Study of Canada
CANS 202	(3)	Canadian Cultures: Conditional Issues
GEOG 200	(3)	Geographical Perspereis:World Environmental Problems
GEOG 205	(3)	Global Change: St, Present and Future
GEOG 210	(3)	Global Places and Peoples
GEOG 217	(3)	Cities in the ModernWorld
HIST 202	(3)	Survey: Canada to 1867
HIST 203	(3)	Survey: Canada since 1867
JWST 240*	(3)	The Holocaust
POLI 221	(3)	Government of Canada
POLI 222	(3)	Political Process and Behiaur in Canada
WMST 200*	(3)	Introduction toWomen's Studies

Electives (3 credits)

3 credits

Bachelor of Education Kindergarten and Elementary Program (Jewish Studies Option)

EDFM 260	(1)	Stage deamiliarisation
EDPI 309	(3)	Exceptional Students
EDSL 260	(1)	Séminaire professionnel-2e
EDSL 301	(3)	Étude de la langue
EDSL 444	(3)	Laboratoire d'enseignement en français langue seconde
EDUM 215	(0)	Test de certi cation en français écrit
EDUM 245	(3)	Français écrit pour futurs enseignants
EDUM 262	(3)	Système éducatif - profession enseignante
EDUM 263	(3)	Apprentissage et déloppement
EDUM 264	(3)	Phonétique et phonologie
EDUM 265	(3)	Acquisition-apprentissage-langues secondes
EDUM 266	(3)	Mathématiques au primaire
EDUM 267	(3)	Didactique des arts plastiques 1
EDUM 268	(3)	Intégration des IC
EDUM 269	(3)	École et enironnement social
EDUM 270	(3)	Morphologie et syntæx
EDUM 271	(3)	Lexique et sémantique
EDUM 341	(3)	Littératie et Littérature Jeunesse en FLS
EDUM 392	(3)	Gestion de classe en langues secondes
EDUM 393	(3)	Adolescent etxpérience scolaire
EDUM 402	(3)	Évaluation en français langue seconde
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 pro	cive heavel in the teaching of French, the following courses (or equalent courses if not vailable
EDEN 220	(2)	

FREN 239	(3)	Stylistique comparée
FREN 245	(3)	Grammaire vancée
FREN 334	(3)	Analyse des tetes littéraires

Complementary Courses (40 credits)

40 credits selected as described twelo

3 credits from:

EDEC 260	(3)	Philosophical Fundations
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 tweets of courses:

Either set:

EDFE 461 (9) Stage d'enseignement - immersion

Séminaire 4 professionnel

10.25	Bachelor of Education (B.Ed.) - Teaching English as a Second Language - TESL Elementary and Secondary (12	21
	credits)	

The Bachelor of Education (B.Ed.)Teaching English as a Second LanguatjeSL Elementary and Secondary program requires 121 credits and leads to teacher certi cation. Students who when the completed Quebec CEGEPench Baccalaureate, International Baccalaureate, or at least one years flying the complete the complete of the

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 255D1	(1)	Second Professional Seminar
EDSL 255D2	(1)	Second Professional Seminar
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)	ThirdYear Professional Seminar
EDSL 330	(3)	L2 Literacy Development
EDSL 334	(3)	Teaching Oral Skills in ESL
EDSL 350	(3)	Essentials of English Grammar
EDSL 412	(3)	Assessment in ESL
EDSL 415	(3)	Fourth Professional Seminar
EDSL 447	(3)	Methods inTESL 1
EDSL 458	(3)	Methods inTESL 2

Complementary Courses (39 credits)

39 credits selected as described twelo

3 credits from:

EDEC 233	(3)	First Nations and Inuit Education
EDEC 248	(3)	Multicultural Education
EDEC 249	(3)	Global Education and Social Justice
3 credits from:		
EDEC 260	(3)	Philosophical Fundations
EDEC 261	(3)	Philosophy of Catholic Education
3 credits from:		
EDEC 262	(3)	Media, Technology and Education
EDPT 200	(3)	Integrating EducationaTechnology in Classrooms
EDPT 204	(3)	Educational Media 1
EDPT 341	(3)	Instructional Programming 1
EDPT 420	(3)	Media Literay for Education

3 credits from:

EDEE 325	(3)	Children's Literature
EDES 366	(3)	Literature forYoungAdults
3 credits from:		
EDPI 341	(3)	Instruction in Inclusie Schools
EDPI 440	(3)	Managing the Incluse Classroom
3 credits from:		
LING 200	(3)	Introduction to the Study of Language
LING 201	(3)	Introduction to Linguistics

3 credits from:

Quebec graduates of this program recelinistère de l'Éducation, du Loisir et du Sport (MELS) certi cation to teach at the elementary soleloiolfférst Nations and Inuit schools.

On completion of the Certi cate requirements, trainees may apply for admission to the Bachelor of Education for **Teathers** program with up to 30 credits adamsed 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 Certi cate in Education for First Nations and Inuit is 12 Thearts niversity reserves the right to request that a student retake course or courses after a 5-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 studentsept those specializing in teaching/placal education.

Required Courses (30 credits)

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

12 credits of practicum courses:

EDEC 201	(1)	FirstYear Professional Seminar
EDEC 253	(1)	Second Professional Seminar (Kingdanten/Elementary)
EDFE 200	(2)	First Field Experience (K/Elem & Secondary)
EDFE 256	(3)	Second Field Experience (Kindparten/Elementary)
EDFE 300	(5)	Aboriginal Education Field Experience

Complementary Courses

30 credits selected as described twelo

6 credits from the follwing language courses according to language group andyuenc

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 Orthograph 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

Cultural Skills and Language Arts

6 credits:

Cultural Skills ts:

EDEE 261	(3)	Reading Clinic - Early Childhood
EDEE 292	(3)	Using Instructional Resources
EDEE 340	(3)	SpecialTopics: Cultural Issues
EDEE 342	(3)	Intermediate Inuktitut/Amerindian Language
EDEE 344	(3)	Advanced Inuktitut/Amerindian Language
EDEE 345	(3)	Literature and Create Writing 1
EDEE 346	(3)	Literature and Create Writing 2
EDEE 444	(3)	First Nations and Inuit Curriculum
EDKP 204	(3)	Health Education
EDKP 224	(3)	Foundations of Moement Education
EDKP 342	(3)	Physical Education Methods
EDKP 494	(3)	Physical Education Curriculum Delopment
EDPE 377	(3)	Adolescence and Education
EDSL 247	(3)	Second Language EducationAboriginal Communities

30 credits selected as described welo

 ${\bf 6}$ credits from the follwing language courses according to language group and yuenc

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 Orthograph 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
9 credits:		
EDKP 241	(3)	Aboriginal Physical Activities
EDKP 342	(3)	Physical Education Methods
EDKP 494	(3)	Physical Education Curriculum Delopment

6 credits from the follwing pth)

List A

9 credits from different subject areas from course Lissand course List B with priority gien to courses from List.

EDEC 262	(3)	Media,Technology and Education
EDEE 230	(3)	Elementary School Mathematics
EDEE 241	(3)	Teaching Languagerts
EDEE 250	(2)	The Kindegarten Classroom
EDEE 270	(3)	Elementary School Science
EDEE 275	(2)	ScienceTeaching

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

An applicant will normally be emplored as a teacher or as a classroom assistance ahalid teaching authorization from the appropriate teaching authority or a community education committee, be recommended by the school principal and an of cer of the education law through mended by a local community education committee, and be at least 21 years of causes applicants will be considered for admission if thread a Grade 12 Secondary School Diploma or a Diploma of Codical Studies. The right of nal decision for acceptance of candidates rests with McGill.

Those intending to complete the programfe need in cooperation with the Katilk School Board must be uent and literate in Inuktitut/Inuinnaqtun. Flyuenc in Algonquin, Cree, Mi'kmaq or Molvek is not a condition for acceptance for applicants from these communitities, donsidered an asset. Courses are available in all four of these languages for those teaching in immersion classes and other teaching situations while degree with the rst language is essential.

11.4 Certificate in Aboriginal Literacy Education (30 credits)

This 30-credit program is designed Algonquin, Cree, Inuit, Mi'kmaq and Kanienk

EDEE 240	(3)	Use and Adaptation of Curricula
EDEE 243	(3)	Reading Methods in Inuktitut/Cree
EDEE 247	(6)	Individualized Instruction
EDEE 248	(3)	Reading and Vriting Inuktitut/Cree
EDEE 345	(3)	Literature and Create Writing 1
EDEE 346	(3)	Literature and Create Writing 2
EDES 365	(3)	Experiences in Communications
EDPE 304	(3)	Measurement and Eluation

Electives (6 credits)

6 credits of suitable courses appered by the Director of Programs in First Nations and Inuit Education.

11.4.1 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 profession about, students will be Indigenous teachers emptoed in local schools hey must be mature students, or hold a Secon datipoloma or equialent. The right of nal decision for acceptance of candidates rests with McGill.

11.5 Certificate in Middle School Education in Aboriginal Communities (30 credits)

This 30-credit program focuses on veltoping the particular skills and abilities required of the Indigenous teacher in the middle school of his/her community It does not lead to princial certi cation. Ratherit prepares Indigenous teachers, who are bilingual voer shame knowledge of their Indigenous language and who have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, to teach students at which have already established themsess as teachers, and the teacher's role of the have the

This certi cate may be taken concurrently and completed within the Bachelor of Education for Certieadhers program if the requirements for the B.Ed. are full lled.

Required Courses (15 credits)

EDEC 245	(3)	Middle SchoolTeaching
EDEC 246	(3)	Middle School Curriculum
EDFE 210	(3)	Middle School Practicum
EDPE 377	(3)	Adolescence and Education

3 credits from the list believe

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 CeTeachers 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 Ce**Theach**ers 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 apped by the Director of Programs in First Nations and Inuit Education.

EDEA 241	(3)	BasicArt Media for Classroom
EDEC 220	(3)	Curriculum Development
EDEC 243	(3)	Teaching: Multigrade Classrooms
EDEE 291	(3)	CulturalValues and Socialization
EDEE 444	(3)	First Nations and Inuit Curriculum
EDKP 241	(3)	Aboriginal Physical Activities
EDPT 200	(3)	Integrating EducationaTechnology in Classrooms
		Second Langiecond Langiesel

11.6.1 Admission to the

Students admitted to the diploma or equialent. So or Education Centre. of for acceptance of cand

First Nations and Inuit Educa

e recommended by their commended by their commended

11.7 Bachelor of Edu

This 90-credit program degree. Normallya mini may be transferred fror Literacy Education taken completed before the E and Inuit will have accur

The Certi cate in Aborigand Inuit Educational L pro le is ful lled.

This program does not

Complementary Coul

Candidates enrolled in

Academic Concentra

30 credits in ve (5) sub 3 credits in each of thre yanguage

tified Teachers - E

eachers who are alrest must be tankin the ing to the Certi cates dit may also be transproperly the Bache f 120 credits, 60 for

cation, the Certi cate eetakconcurrently and

erti cation.

nplete 90 credits within the

ľ

to elementary education in a 12-9-3 areas), or 30 academic credits in three

cation - Native and Northern (90 credits)

d a further 60 for the B.Ed.

EducatiorAbroriginal Communities, or the Certi cate in First Nations the Bachelor of Education for Certicedhers if the required B.Ed.

ond subject, and

chool Boa

EDEE 291	(3)	CulturalValues and Socialization
EDEE 444	(3)	First Nations and Inuit Curriculum
EDSL 247	(3)	Second Language EducationAboriginal Communities

Complementary Courses (12 credits)

12 credits selected as described twelo

Language

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

Education

9 credits of Education courses selected from the listwoetcary other suitable course appreed 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 247	(6)	Individualized Instruction
		Cooperati 70.52 725.5nn36)

Complementary Courses (9 credits)

9 credits selected from the list belor any other suitable course appreed by the Program Coordinator

Registration in EDEM 202, EDKP 204 or nother courses the fed by departments other than Educational and Counselling Psychology ther programs of this Department is dependent our aid ability (e.g., through a concurrently felfed program) or through an arrangement made with that department or program. The Program Coordinator will attempt to neather contacts whenever required.

EDEM 202	(3)	Native Family Dynamics & Supporting Institutions
EDKP 204	(3)	Health Education
EDPC 206	(3)	Group Leadership Skills
EDPC 207	(3)	Aboriginal Adolescent Deelopment
EDPC 211	(3)	SpecialTopics in Student Personnel Services
EDPI 211	(3)	Social and Emotional Delopment

11.9.1 Admission to Certificate in First Nations and Inuit Student Personnel Services

Speak, read, and write uently the language of instruction as agreed upon between First Nations and Inuit Education and the contracting school boar Hold a student adviser position in **Ab**original communityThis may be a **ne** appointment concurrent with **gis** tration in the program. Be recommended by the local education authority

Be at least 21 years of agacept for special permission). By this means students will qualify for a 242.689 D.92nMa353)

Department of Kinesiology and Ph

EDKP 391	(3)	Physiology in Sport and Exercise
EDKP 394	(3)	Historical Perspecties
EDKP 396	(3)	Adapted Phsical Activity
EDKP 442	(3)	Physical Education Pedagogy
		Research Methods

CHEM 212	(4)	Introductory Oganic Chemistry 1
EDKP 206	(3)	Biomechanics of Human Mement
EDKP 215	(0)	Standard FirsAid/Cardio-Pulmonary Resuscitation \(\text{\text{test}} \) C
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition andWellness
EDKP 330	(3)	PhysicalActivity and Health
EDKP 394	(3)	Historical Perspecties
EDKP 395	(3)	Exercise Plusiology
EDKP 396	(3)	Adapted Plysical Activity
EDKP 405	(3)	Sport in Society
EDKP 443	(3)	Research Methods
EDKP 447	(3)	Motor Control
EDKP 485	(3)	Exercise Athophysiology 1
EDKP 495	(3)	Scienti c Principles ofTraining
EDKP 498	(3)	Sport Psychology
PHGY 209	(3)	Mammalian Plasiology 1
PHGY 210	(3)	Mammalian Plasiology 2

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
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PHYS 142 (4) Electromagnetism and Optics

Required Courses (67 credits)

In addition to the 58 credits of required courses for the meljomours students complete EDKP 453 "Research Practicum in Kinesiology" and EDKP 499 "Undergraduate Honours Research Project."

ANAT 315	(4)	Anatomy/Limbs and Back
ANAT 316	(2)	HumanVisceralAnatomy
BIOL 200	(3)	Molecular Biology
CHEM 212	(4)	Introductory Oganic Chemistry 1
EDKP 206	(3)	Biomechanics of Human Mement
EDKP 215	(0)	Standard FirsAid/Cardio-Pulmonary Resuscitation \Led C
EDKP 261	(3)	Motor Development
EDKP 292	(3)	Nutrition andWellness
EDKP 330	(3)	PhysicalActivity and Health
EDKP 394	(3)	Historical Perspecties
EDKP 395	(3)	Exercise Plysiology
EDKP 396	(3)	Adapted Plasical Activity
EDKP 405	(3)	Sport in Society
EDKP 443	(3)	Research Methods
EDKP 447	(3)	Motor Control
EDKP 453	(3)	Research Practicum in Kinesiology
EDKP 485	(3)	Exercise Athophysiology 1
EDKP 495	(3)	Scienti c Principles of Training
EDKP 498	(3)	Sport Psychology
EDKP 499	(6)	Undergraduate Honours Research Project
PHGY 209	(3)	Mammalian Plasiology 1
PHGY 210	(3)	Mammalian Plasiology 2

Complementary Courses (15 credits)

15 credits selected as described twelo

3 credits of statistics from:

BIOL 373	(3)	Biometry

MATH 203 (3) Principles of Statistics 1

PSYC 204	(3)	Introduction to Psychological Statistics
SOCI 350	(3)	Statistics in Social Research
12 credits from:		
EDKP 444	(3)	Ergonomics
EDKP 445	(3)	Exercise Metabolism
EDKP 446	(3)	PhysicalActivity andAgeing
EDKP 448	(3)	Exercise and Health Psychology
		Exercise P

Professors

J. Andrew Large; B.Sc. (Lond.), Ph.D. (Glas.), Dip.L (bond.) (CN-Pratt-Grinstad Pofessor of Information Studies

Peter FMcNally; B.A.(W. Ont.), B.L.S., M.L.S., M.A.(McG.)

Associate Pofessors

Jamshid Beheshti; B.A.(S. Fraser), M.L.S., Ph.D. (OM)t.)

France Bouthillier; B.Ed.(UQAM), M.B.S.I.(Mon), Ph.D.(Tor.)

Kim Dalkir; B.Sc., M.B.A.(McG.), Ph.D.(C'dia)

Eun Park; B.A.(Pusan), M.L.I.S.(III.), M.B.A.(Pitt.), Ph.D.(Calif.-LA)

Assistant Professors

Joan Bartlett; B.Sc., M.L.S., Ph.DqfJ)

Catherine Guastráno; B.Sc.(McG.), M.Sc.(Aix-Marseille), Ph.D.4Ps)

Elaine Ménard; B.A., M.A., M.S.I.(Mont)r

Adjunct Professor

Joy Bennett; B.A., M.A.(C'dia), M.L.I.S.(McG.), Ph.D.(C'dia)

Associate Members

Gordon Burr; B.A., M.L.I.S.(McG.)

Pierre Pluye; M.D.(Julouse), M.Sc., Ph.D.(Mon)r RichardVirr; B.A.(Tulane), M.A.(Qu.), Ph.D.(McG.)

Af liate Member

Frances Groen; B.A., B.L.S.(T), M.A.(Pitt.)

ProfessionalAssociate

Edward Bilodeau; B.Sc., M.L.I.S.(McG.)

Part-time Instructors

Tanya Abramovitch; B.A., M.L.I.S., M.A.(McG.)

Nathalie Belanger; LL.B., D.D.N.(Mon); M.L.I.S.(McG.)

Leanne Bwler; B.A., M.L.I.S., M.Ed., Ph.D.(McG.)

Louise Carpentier; B.L.S. (T.), M.Bibl. (Montr.), M.P.P.PA. (C dia)

April Colosimo; B.Sc.(McG.), M.Sc.(She,rM.L.I.S.(McG.)

Shannon Hodge; B.A.(Bishop), M.L.I.S.(McG.)

Catherine Jenner; B.A., LL.B., M.L.So(17), LL.B.(Montr.)

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

Johanne Lessard; B.Ed.(UQAM), M.L.I.S.(McG.)

Amandine Pras; Dip.Sc.(#PsVII), M.Sc.(Consertatoire de Paris)

Marni Tam; B.Sc.(Tor.), M.L.I.S.(McG.)

Jillian Tomm; B.Mus., M.L.I.S.(McG.)

Natasha Zwarich; B.A., M.A.(UQAM)