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- 6. Not all courses are fefred every year and changes can be made after public Adlineary check the Minear Class Schedule link at https://banwelmcgill.ca/pban1/bwckschd.p_disp_dyn_scfrercthe most up-to-date information on whether a course is offered.
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Note: Thr oughout this publication, "you" r efers to students newly admitted, eadmitted or returning to McGill.

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1 Dean's Welcome

To Graduate Students and Postdoctoral Fusilo

I am extremely pleased to welcome you to McGill Weisity. Our world-class scholarly community includes 250 doctoral and master space programs, and is recognized forcellence across the full range of academic disciplines and professions. Graduate and Postdoctoral Studies (GPS) collaborates with the Faculties and other administretiand academic units to pride strategic leadership and vision for graduate teaching and research across/teresitylni GPS also versees the admission and interaction of graduate students, distaing graduate fellowships, supporting postdoctoral fellos, and acilitating the graduation process, including the emination of theses. GPS has partnered with Enrolment Service enterto amlined services in a one-stop location at Service Pint.

McGill is a student-centred research institution that places singular importance upon the quality of graduate education and postdoctoses statistically proved (Graduate Education), as well as Dean of Graduate and Postdoctoral Studies; lossely with the aculties, central administration, graduate students, professors, researchers, and postdoctoral students and postdoctoral students and postdoctoral fellows.

McGill is ranked as one of Canada's most interesciesearch undersities and among theowld's top 25We recognize that these successes come not only from our outstanding aculty members, ultralso from the quality of our graduate students and postdoctors. It is community into which we are very happy to welcome you.

I invite you to join us in adancing this heritage of keellence at McGill.

Martin Kreiswirth, Ph.D.
Associate Rovost (Gaduate Education)
Dean, Gaduate and Estdoctoal Studies

2 Graduate and Postdoctoral Studies

2.1 Administrative Officers

Administrati ve Of cers

Martin Kreiswirth; B.A.(Hamilton), M.A.(Chic.), Ph.D.Øī.)

Associate Povost (Graduate Education) and Dean (Graduate and

Postdoctoral Studies)

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Associate Dean (Graduate and Estdoctoral Studies)

Laura Nilson; B.A.(Colgte), Ph.D.(¥le)

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2.2 Location

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Email: servicepoint@mcgill.ca Website:wwwmcgill.ca/gps



Note: For inquiries rearding speci c graduate programs, please contact the appropriate department.

2.3 General Statement Concerning Higher Degrees

Graduate and Postdoctoral Studies (GR®) sees all programs leading to graduate diplomas, certi cates, and highest devith the seeption of some programs in the School of Continuing Studies. It is responsible for admission policies, the supervision of graduate students for recommending to Senate those who may receible degrees, diplomas, and certi cates.

3 Important Dates 2012 2013

For all dates relating to the academic yeansultwwwmcgill.ca/importantdates

4 Graduate Studies at a Glance

4.1 Graduate and Postoctoral Degrees Offered by Faculty

McGill University ofers graduate and postdoctoral programs in the wind units (oganized by their administering homecfulty):

Faculty of Agricultural and En vironmental Sciences	DegreesAvailable
: Agricultural Economics	M.Sc.
: Animal Science	M.Sc., M.Sc.A., Ph.D.
: Bioresouce Engineering	M.Sc., M.Sc.A., Ph.D., Graduate Certi cate
: Biotechnology	M.Sc.A., Graduate Certi cate
: Dietetics and Human Nutrition	M.Sc., M.Sc.A., Ph.D., Graduate Diploma
: Food Science an digricultural Chemistry	M.Sc., Ph.D.
: Natural Resource Sciences	M.Sc., Ph.D.
: Parasitology	M.Sc., Ph.D.
: Plant Science	M.Sc., M.Sc.A., Ph.D., Graduate Certi cate
Faculty of Arts	DegreesAvailable
: Anthropology	M.A., Ph.D.
: Art History	M.A., Ph.D.
Classics see History and Classical Studies	N/A
: Communication Studies	M.A., Ph.D.
: EastAsian Studies	M.A., Ph.D.
: Economics	M.A., Ph.D.
: English	M.A., Ph.D.
: French Language and Liteature	M.A., Ph.D.
section 11.6Geography	M.A., Ph.D.
: History and Classical Studies	M.A., Ph.D.
: Institute for the Study of International Delopment	N/A
: Islamic Studies	M.A., Ph.D.

Faculty of Arts	DegreesAvailable
: Jewish Studies	M.A.
: Languages, Liteatures, and Cultures	M.A., Ph.D.
: Linguistics	M.A., Ph.D.
section 11.7Mathematics and Statistics	M.A., Ph.D.
: Philosophy	M.A., Ph.D.
: Political Science	M.A., Ph.D.
section 11.9Psychology	M.A., Ph.D.
: Quebec Studies / Études sur le Québec	N/A
: Social Studies of Medicine	N/A
: SocialWork	M.S.W., Ph.D.M.Sc., Ms0 1 317.791 264 Tm ngineeriQa7J Physic8eeri
: Sociology	M.A., Ph.D.
School of Dentistry	DegreesAvailable
: Dentistry	M.Sc.
Desautels Exculty of Management	DegreesAvailable
: Desautels Eculty of Management	M.B.A., M.B.A. with Integrated B.C.L./LL.B., M.D./M.B.A., M.B.A./Japar E.M.B.A., M.M.M., M.M., Ph.D., Graduate Certi cate, Diploma
Faculty of Education	DegreesAvailable
: Educational and Counselling Psydogy	M.A., M.Ed., Ph.D., Graduate Diploma
: Information Studies	M.L.I.S., Ph.D., Graduate Certi cate, Graduate Diploma
: Integrated Studies in Education	M.A., Ph.D., Graduate Certi cate
: Kinesiology and Physical Education	M.A., M.Sc.
Faculty of Engineering	DegreesAvailable
: Architecture	M.Arch., Ph.D.
: Chemical Engineering	M.Eng., Ph.D.
: Civil Engineering and Applied Mebanics	M.Sc., M.Eng., Ph.D.
: Electrical and Computer Engineering	M.Eng., Ph.D.
: Mechanical Engineering	M.Sc., MsEntg.3 Ph79.1 264 Tm ngineeriQa7J Physic8eering
: Mining and Materials Engineering	M.Sc., M.Eng., Ph.D., Graduate Diploma
: Urban Planning	M.U.P.

Degree		Prerequisites
Master ofArts	M.A.	Bachelor of Arts in the subject selected for graduater kn See appropriate unit.
Master of Architecture	M.Arch.	Professional degree McGill B.Sc.(Arch.) degree, or equivalent.
		Post-professional dece an M.Arch. (professional dece) or equialent professional dece.
Master of Busines&dministration	M.B.A.	An undegraduate degree from an appixed university. See M.B.A. Pogram
Master of Busines&dministration with integrated Bachelor of Qil Law / Bachelor of Laws	M.B.A. with B.C.L./LL.B.	See: M.B.A. Pogram
Master of Busines&dministration with Doctor of Medicine / Master of Somery	M.B.A. with M.D.,C.M.	See: M.B.A. Pogram

Bachelor's deree with specialization related to the subject chosen for graduate work, plus a Permanent Queblexaching Diploma or its equalent for some of the abo

Program Ar eas	Thesis/Non-Thesis	Options
Political Science	Thesis, Non-Thesis	Development Studies, European Studies (Thesis)
		Development Studies, European Studies, Gende Wamd en's Studies, Social Statistics (Non-Thesis)
Psychology	Thesis	N/A
Religious Studies	Thesis, Non-Thesis	Bioethics, Gender and/omen's Studies (Thesis)
Russian	Thesis	N/A
Second Language Education	Thesis, Non-Thesis	Gender and Vomen's Studies (Thesis)
Sociology	Thesis, Non-Thesis	Development Studies, E irronment, Gender an d /omen's Studies, Medical Sociology Neotropical Enironment (Thesis)
		Development Studies, Gender al/Momen's Studies, Medical Sociology Social Statistics (Non-Thesis)
Teaching and Learning	Non-Thesis	English or French Second Language, English LangAatgeMathematics, Science andechnologySocial Sciences

Master of BusinessAdministration and Management Degrees (M.B.A., M.M., M.M.M.)

A program leading to the gleee of Master of Busines sum instration (M.B.A.) is offered in the following concentrations:

		` ,
Program	Thesis/Non-Thesis	s Options
M.B.A.	Non-Thesis	Finance, General Management, Global Stryatend Leadership, Maelting, Technology and Innovation (Non-Thesis)
M.B.A. with B.C.L. and LL.B.	Non-Thesis	Finance, General Management, Global Stryatend Leadership, Maetting, Technology and Innovation (Non-Thesis)
M.D./M.B.A.	Non-Thesis	N/A
M.B.A./Japan	Non-Thesis	Finance, General Management, Global Stryatend Leadership, Maelting, Technology and Innovation (Non-Thesis)
E.M.B.A.	Non-Thesis	N/A
M.M.M.	Non-Thesis	N/A
M.M./IMPM	Non-Thesis	N/A
M.M./IMPMHL	Non-Thesis	N/A
Master of Education (M.Ed.)		
Program	Thesis/Non-Thesis	Options
Educational Psychology	Non-Thesis	N/A
Master of Engineering (M.Eng)		
Program	Thesis/Non-Thesis	Options
Aerospace Engineering	Non-Thesis	N/A
Biomedical Engineering	Thesis, Non-Thesis	Bioinformatics (Thesis)
Chemical Engineering	Non-Thesis	Environmental Engineering (Non-Thesis)
Civil Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Electrical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mechanical Engineering	Thesis, Non-Thesis	Computational Science and Engineering (Thesis)
Mining and Materials Engineering	Thesis, Non-Thesis	Environmental Engineering (Non-Thesis)
Master of Laws (LL.M.)		

Program	Thesis/Non-Thesis	Options
Law	Thesis, Non-Thesis	Bioethics, European Studies (Thesis)

Program Ar eas	Thesis/Non-Thesis	Options
Food Science an Agricultural Chemistry	Thesis, Non-Thesis	Food Safety (Non-Thesis)
Genetic Counselling	Non-Thesis	N/A
Geograph	Thesis	Environment, Neotropical Brironment
Human Genetics	Thesis	Bioethics, Bioinformatics
Human Nutrition	Thesis	N/A
Kinesiology and Pyrsical Education	Thesis, Non-Thesis	N/A
Mathematics and Statistics	Thesis, Non-Thesis	Bioinformatics, Computational Science and Engineering
Mechanical Engineering	Thesis	N/A
Medical Radiation Pyrsics	Thesis	N/A
Microbiology	Thesis	Environment
Microbiology and Immunology	Thesis	N/A
Mining and Materials Engineering	Thesis	N/A
Neuroscience	Thesis	N/A
Otolaryngology	Thesis	N/A
Parasitology	Thesis	Bioinformatics, Environment
Pathology	Thesis	N/A
Pharmacology	Thesis	Chemical Biology
Physics	Thesis	N/A
Physiology	Thesis	Bioinformatics
Plant Science	Thesis	Bioinformatics, Environment, Neotropical Environment
Psychiatry	Thesis	N/A
Psychology	Thesis	N/A
Public Health	Non-Thesis	Environment
Rehabilitation Sciences	Thesis, Non-Thesis	N/A
Renewable Resources	Thesis, Non-Thesis	Environment, Neotropical Enironment (Thesis)
		EnvironmentalAssessment (Non-Thesis)

Master of ScienceA

Program	Thesis/Non-Thesis	Options
Occupational Therapy	Non-Thesis	N/A
PhysicalTherapy	Non-Thesis	N/A
Plant Science	Non-Thesis	N/A

Master of SocialWork (M.S.W.)

The M.S.W degree represents a secondelleof professional study in which studentsild competence in a chosen eld of practice.

Program	Thesis/Non-Thesis	Options
SocialWork	Thesis, Non-Thesis	N/A
Joint Master of SociaNork with B.C.L. and LL.B.	Non-Thesis	N/A

Master of Urban Planning

The program requires a minimum of twears residence and a three-month internship with a member of a recognized planning association.

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Programs leading to the gree of Doctor of Philosophare ofered in the following areas:

Program	Options	Offered by Faculty/School
Animal Science	Bioinformatics	Faculty of Agricultural and Emironmental Sciences
Anthropology	Neotropical Emironment	Faculty ofArts
Architecture	N/A	Faculty of Engineering
Art History	Gender and Vomen's Studies	Faculty ofArts
Atmospheric and Oceanic Science	ce s N/A	Faculty of Science
Biochemistry	Bioinformatics, Chemical Biology	Faculty of Medicine
	Bioinformatics, De	Faculty of Science

Program	Options	Offered by Faculty/School
Islamic Studies	Gender and Women's Studies	Faculty ofArts
Linguistics	LanguageAcquisition	Faculty ofArts
Management	N/A	Desautels & Culty of Management
Mathematics and Statistics	Bioinformatics	Faculty of Arts, Faculty of Science
Mechanical Engineering	N/A	Faculty of Engineering
Microbiology	N/A	Faculty of Agricultural and Emironmental Sciences
Microbiology and Immunology	Bioinformatics, Environment	Faculty of Medicine
Mining and Materials Engineering	N/A	Faculty of Engineering
Music	(Composition, Music Education, Musicology Jusic Technology Sound Recording, Theory), Gender ar Women's Studies	
Neuroscience	N/A	Faculty of Medicine
Nursing	Psychosocial Oncology	Ingram School of Nursing
Occupational Health	N/A	Faculty of Medicine
Parasitology	Bioinformatics, Environment	Faculty of Agricultural and Emironmental Sciences
Pathology	N/A	Faculty of Medicine
Pharmacology	Chemical Biology	Faculty of Medicine
Philosophy	Environment, Gender and/omen's Studies	Faculty ofArts
Physics	N/A	Faculty of Science
Physiology	Bioinformatics	Faculty of Medicine
Plant Science	Bioinformatics, Exironment, Neotropical Environment	Faculty of Agricultural and Emironmental Sciences
Political Science	Gender and Women's Studies	Faculty ofArts
Psychology	LanguageAcquisition, Psychosocial Oncology	Faculty of Arts, Faculty of Science
Rehabilitation Science	N/A	School of Physical and Occupation Therapy
Religious Studies	Gender and Vomen's Studies	Faculty of Religious Studies
Renewable Resources	Environment, Neotropical Enironment	Faculty of Agricultural and Emironmental Sciences
Russian	N/A	Faculty ofArts
School/Applied Child Psychology	N/A	Faculty of Education
SocialWork	N/A	Faculty ofArts
Sociology	Environment, Gender and/omen's Studies	Faculty ofArts

Joint Doctor of Philosophy Degrees

The following joint Ph.D. programs arefefed:

Nursing (McGill / Université de Montréal)

Management (McGill / Concordia / H.E.C. / UQAM)

SocialWork (McGill / Université de Montréal)

Ad Hoc Doctor of Philosophy Degrees (Ph.D(Ad Hoc))

Several departments feefr the possibility of directly entering a Ph.D. program or adulhocbasis, grwith the permission of the supervisor and the approof the Graduate Program Directexceptional students may transfer from the master's program and the program.

Program	Options	Offered by Faculty/School
EastAsian Studies	N/A	Faculty ofArts
Italian Studies	N/A	Faculty of Arts
		cm 421.76 6.1 (m7.404 12 6.1 (l7.404 12 6.6 (l7421.76 6.6 (l

The following master's programs was minimum residence requirement/ofee full-time terms M.Arch, M.A., M.Eng., LL.M., M.Mus. except M.Mus. in Sound Recording), M.Sc., M.S., M.S., M.S., A. (except M.Sc.A. in Communication Sciences and Disorders).

The following master's programs weaminimum residence requirement to fur full-time terms: M.L.I.S.; M.Mus. in Sound Recording; M.U;P M.A. (60 credits Counselling Psychology thesis; 78 credits Educational Psychology); The Arching and Learning Non-Thesis; M.Sc.A. in Communication Sciences and Disorders: M.T.Religious Studies.

The residence requirement for the master's program in Education (M.Ed.); Library and Information Studies (M.L.I.S.); Management (M.B.A.); Religious Studies (S.TM.); M.A. Counselling Psychology Non-Thesis; M.Teaching and Learning Non-Thesis; M.Sc. in Public Health Non-Thesis; M.Sc.A. Occupation herapy; M.Sc.A. Physical Therapy; and students in part-time programs is determined on a per course basis. Residence requirements are full led when students complete all course requirements in their requirements.

For master's programs structured as Course, Project or Non-Thesis options where the program is pursued on a part-time basis, residence requirements are normally ful lled when students complete all course requirements in their respection rams (minimum 45 credits or a minimum of three full-time terms) and pay the fees accordingly

These designated periods of residence represent minimum time require interests no guarantee that therefore the degree can be completed in this time. Students must gister for such additional terms as are needed to complete the program.

Coursework Master's Degrees

Program requirements are outlined in the wante departmental sections of the Graduate and Postdoctoral Strongieums, Couses and University Regulations publication, scailable at



Note: The mastes degree must here been warded before initial restration in the doctoral program; otherwise, the admission well be at Ph.D. 1 and residence will be extended to three years. Once there admission is approved, it will not be changed after obtaining the master degree if the dateals after registration in the program. If a prieus awarded degree is a condition of admission, it must be fullled before stration in another program.

As a rule, no more than one-third of the McGill program formal counsecan be credited with courses from another ensity.

Comprehensive Examinations Doctoral

A comprehensive examination or its equialent is usually held near the end of Ph.DTD2 results of this mamination determine whether or not students will be permitted to continue in their program to their program adopted for a minimum and waluation and the areas to be a minimum are specified by departmental regulations approved by the Dean of Graduate and Postdoctoral Studies. It is the responsibility of students to information and the areas to be a minimum and the areas to be a minim

English and French language courséered by the French Language Centrac(Iffty of Arts) or the School of Continuing Studies may not bertafor coursework credits toward a graduate program.

All substitutions for courseork in graduate programs, diplomas, and certi cates must be veep boy GPS.

Courses taken at other institutions to be part of the requirements of a program of studies must becapping before gistration. Double counting is not permitted.

6 Graduate Admissions and Application Procedures

Website:wwwmcgill.ca/gadapplicants Email:servicepoint@mcgill.ca

Deadline: Admission to graduate studies operates on abling basis; complete applications and their supporting documentation mustach departmental of ces on or before the Date of Guaranteed Consideration speci ed by the departmentTo be considered for entrance fellowships, where available, applicants must verify the deadlines with individual departments. Meeting minimum admission standards does not guarantee admission.

6.1 Application for Admission

Revision, October 2012. Start of revision.

Application information and the online application form arailable atwwwmcgill.ca/gadapplicants/applyApplicants (with somexceptions) are required to provide the names and email addresses of its tructors a finite with their work and who are willing to provide letters of reference in support of the applicant. McGill will request the reference letters on behalf of the applicants must themselve upload an unof cial coppof their complete academic record from each weisity-levih5m (Application f)Tj tutions to bf 1y of te3t02llo5ates pplicabro

6.6 Admission to a Qualifying Program

Some applicants whose academigrees and Standing entitle them to serious consideration for admission to graduate situalities also considered inadequately prepared in the subject selected may be admitted to a Qualifying Program for a Timestendegraduate-leel courses to be taken in a Qualifying Program will be prescribed by the department concerned.

Qualifying students are quistered in graduate studies to not as candidates of a degree Only one Qualifying year (i.e., towfull-time terms) is permitted.

In all cases, after the completion of a Qualifying year or term, an applicant interested in commengine and arm must apply for admission by the Dates for Guaranteed Consideration. Successful completion obtaviously Program (B- in all courses) does not automatically entitle the student to proceed ward a degree. Qualifying year students must apply for admission to the program for whickettle qualication.

In cases where a department recommends a change subfate on from Qualifying Program (#II) to Master's Degree First (Winter), students must apply to the degree program by the Winter departmental Dates for Guaranteed Consideration A Qualifying year applicant admitted to varieties as a rst term of studies must apply for admission for the term as a rst term of studies.

Students who are ineligible for a Qualifying Program may apply to the appropriate raddlessed aculty for admission as gelar or Special Students, and seek admission to graduate studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual proceduves of lost of the studies at a later basenormal admission requirements must be met and the usual procedure of the studies at a later basenormal admission requirements must be met and the usual procedure of the studies at a later basenormal admission requirements must be met and the usual procedure of the studies at a later basenormal admission requirements.

6.7 Admission to a Second Degree Program

A candidate with a gien higher degree may apply for admission to a secongrete program at the same whe but in a different subject The normal admission requirements must be met and all the usual procedure setblio

6.8 Admission to Two Degree Programs

Students maywith special permission granted by Graduate and Postdoctoral Studies, be admitted by Departments on the Students are ever permitted to pursue to full-time degree programs concurrently

6.9 Admission to an Ad Personam Joint Program

Ad Personamjoint graduate programs are restricted to Master's thesis option and Ph.D. pragrammusal for the joint program must be obtained from Graduate and Postdoctoral Studies request shall be signed by the Chairs of both departments and shall eplicitly list the conditions imposed. The student shall undertalkesearch under the joint supervision of both departments.

This program is described in more detailhab://secuewebmcgill.ca/gadapplicants/apply/papare#program.

6.10 Reinstatement and Admission of Former Students

Students who have not been registered for a period of less thanotypears and who have not of cially withdrawn from the University by submitting a signed Withdrawal Form to Service Point are eligible to be considered for reinstatement into their problems fundent's department must recommend, in writing, that the student be reinstated, stipulating conditions for reinstatement that it deems approprize nal decision rests with GPS. Normalthie departmental recommendation is appeared if the student's department chooses not to recommend reinstatement, the student may appeared bean (Graduate and Postdoctoral Studies) shall be nall and not subject to further appeal.

Reinstatement fees will be cliped in addition to the fees due for the academic session into which the student has been reinstatement fees is the tuition portion of fewers of for all unregistered terms, up to a maximum of tweet just prior to the term of reinstatement.

If an individual has not resistered for a period of more thandwears, their student le will be closeThese individuals and those who what formally withdrawn may be considered for admission applicants' admission applications will be considered as part of the current admission with other people applying during thay to and in accordance with current graduate admission procedures and policies.

Procedure: Requirements for completion of the program will be added. Some of these requirements may need to be redorne come come come added. Applicants must inquire about the fees that will be gladr

Revised Council of Ebruary 9, 2004.

6.11 Deferral of Admission

Under exceptional circumstances, an admission for a particular semester can be considered for a littles considered only if the student has not registered. If the student has already is the red, no deferral can be granted the student must with dwafrom the University and apply for admission to a later term.

7 Fellowships, Awards, and Assistantships

Postdocs of policies, procedures, and procedures, and procedures and procedures and procedures and procedures are consistent with these guidelines and the Charter of Sturgets. For their part, Postdocs are responsible for informing them to procedures, and procedures are procedures.

1. De nition and Status

i. Postdoctoral status will be recognized by the left in accordance with Quebec princial regulations. Persons may only be issered with postdoctoral status for a period of up to years from the date those avarded a Ph.D. or equalent degree. Time allocated to parental or health leave is added to this period of time. Less for other reasons, including oution less, do not set end the term. Postdocs must do research under the supervision of a McGill profess, ancluding Adjunct Professors, who is a member of McGill's academic status in the discipline in which training is being provided and with the abilities to full I responsibilities as a supervisor of the research and as a mentor for votal open elet. They are expected to be engged primarily in research with minimal teaching or other responsibilities.

2. Registration

i. Postdocs must be re

- ii. Each academic unit hosting Postdocs should clearly identify Postdeeds and the means by which the libe met by the unit.
- iii. Each academic unit should assess the lability of research supervision dilities, of ce space, and research funding before recruiting Postdocs.
- iv. Some samples of responsibilities of the department are:

to verify the Postdos eligibility period for registration;

to pro

1	on their record. No tui Postdocs on leæ. GPS	tion fees will be c he d to Shas prepared a sumn	for the duration of the a nary tabl ฒต่6พ s le ฆ	uthorizedW e aResearch	ı supervisors are not d atë	g to remunerate students and

Information on Research Policies and Guidelines, P

fri (dr. dcits. Atmospheric and Oceanic Sciences Faculty

Chair

J.R. Gyakum

Emeritus Professors

 $\label{eq:conditional_problem} \mbox{J.F. Derome; B.Sc., M.Sc.} (\mbox{McG.}), \mbox{Ph.D.} (\mbox{Mich.}) \mbox{\sc P.F.S.C.}$

H.G. Leighton; B.Sc., M.Sc.(McG.), Ph.D.(Alta.)

L.A. Mysak; C.M., B.Sc.(Alta.), M.Sc.(Adel.), M., Ph.D.(Harv), F.R.S.C. Canada Steamship Linesd Pessor of Meteodogy)

R.R. Rogers; B.S.(Exas), S.M.(MIT), Ph.D.(NYU)

I. Zawadzki; B.Sc.(Bueno&ires), M.Sc., Ph.D.(McG.),.R.S.C.

Professors

J.R. Gyakum; B.Sc.(Penn. St.), M.Sc., Ph.D.(MIT)

M.K. Yau; S.B., S.M., Sc.D.(MIT)NSERC/Hydo-Québec Industrial Reseater Chair in Short-term Grecasting of Percipitation)

Associate Pofessors

P. Ariya; B.Sc., Ph.D.(Wrk) (William Dawson Sholar) (joint appt. with Chemistily

P. Bartello; B.Sc., M.Sc., Ph.D.(McG.jo(nt appt. with Mathematios

F. Fabry; B.Sc., M.Sc., Ph.D.(McG.jo(nt appt. with McGill Sbool of Environmen);

D. Straub; B.S., M.S.(SW Louisiana), Ph.Da(\$M.)

B. Tremblay; B.Sc., M.Sc.(Car Ph.D.(McG.)

Assistant Professors

M. Bourqui; B.Sc., M.Sc.(EPFL, Switzerland), Ph.D.(ETHZ, Switzerlajodi) t(appt. with Chemistily

Y. Huang; Ph.D.(Princ.)

D. Kirshbaum; Ph.D.(\a/sh.)

P. Kollias; B.Sc., M.S.(Athens), Ph.D.(Miami) $\$ anada Rese**ah** Chair)

J. PalTj 42.104 308.401 Tm441 Tm.Sc.(EPFL, Switc.ii391 Tm (alTj 42.e0 0 1 70.52 308.401 295.6)W

Students registered in M.Sc. programs an expected to regularly attend both the student seminar serie EQ(A 751D1/D2 oATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Complementary Courses (21 credits)

Must complete or have completed the following courses or equalent:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 568	(3)	Ocean Phsics
ATOC 619*	(3)	AdvancedAtmospheric Chemistry
ATOC 626	(3)	Atmospheric/Oceanic Remote Sensing
ATOC 646	(3)	Mesoscale Meteorology
CHEM 619*	(3)	AdvancedAtmospheric Chemistry

^{*} Students may select eitheTOC 619 or CHEM 619.

Or other courses at the 500 de or higher recommended by the Department's Graduate Program Director

Students with a strong background in atmospheric or oceanic science, or a Diploma in Metewilbladge at least the 7 credit minimum. Students with no previous background in atmospheric or oceanic science muesthal 20 credit maximum.

11.1.6 Master of Science (M.Sc.); Atmospheric and Oceanic Sciences (Thesis) En vironment (45 credits)

Thesis Courses (24 credits)

ATOC 691	(3)	Master'sThesis Literature Reew
ATOC 692	(6)	Master'sThesis Research 1
ATOC 694	(3)	Master'sThesis Progress Report and Seminar
ATOC 699	(12)	Master'sThesis

Students rejistered in M.Sc. programs an expected to regularly attend both the student seminar serie EQ(A 751D1/D2 oATOC 752D1/D2) and the Department seminar series during the entire period of their enrolment in the program.

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Evironmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (15 credits)

12 credits of Departmental courses chosen from thewfirolly

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
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ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
ATOC 521	(3)	Cloud Physics
ATOC 525	(3)	Atmospheric Radiation
ATOC 530	(3)	Paleoclimate Dynamics
ATOC 531	(3)	Dynamics of Current Climates
ATOC 540	(3)	Synoptic Meteorology 1
ATOC 541	(3)	Synoptic Meteorology 2
ATOC 568	(3)	Ocean Phsics
ATOC 619*	(3)	AdvancedAtmospheric Chemistry
ATOC 626	(3)	Atmospheric/Oceanic Remote Sensing
ATOC 646	(3)	Mesoscale Meteorology
CHEM 619*	(3)	AdvancedAtmospheric Chemistry

3 credits of MSE courses chosen from the $\mbox{\sc fwilter}$

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling

^{*} Students may select either TOC 619 or CHEM 619.

And 6 credits from the Department Autmospheric and Oceanic Sciences, at the 500 or 600 less approved by the Graduate Program Director

11.2 Biology

11.2.1 Location

Department of Biology Stewart Biological Sciences Building, RooM/4/8 1205 Dr Pen eldAvenue Montreal, QC H3A 1B1 Canada

(.5)

Telephone: 514-398-6400 Fax: 514-398-5069

Email: gradinfo.biology@mcgill.ca Website:http://biology.mcgill.ca

11.2.2 About Biology

The Department ters graduate training in man

section 11.2.6Master of Science (M.Sc.); Biology (Thesis) Exironment (48 credits)

The Environment graduate optionfefs students the opportunity to pursue incomment-focused graduate research in the colorea range of different elds, including Anthropology Atmospheric and Oceanic Sciences, Biology presource Engineering, Earth and Planetary Sciences, Entophology Epidemiology Experimental Medicine, Geograph Law, Microbiology, Plant Science, Prasitology Philosophy, Renewable Resources, and Sociology Through a program consisting of research, seminars, condutives, this option adds a layer of interdisciplinarity that challenges students defend their research and think in a broader conductives, this option adds a layer of interdisciplinarity that challenges students defend their research and think in a broader conductives, this option adds a layer of interdisciplinarity that challenges students defend their research and think in a broader conductive graduating from the M.Sc. or Ph.D. program under thince time the option will therefore be able to understand and critically analyze animental problem from serial perspectives (e.g., social, cultural, scienti c, technological, ethical, economic, political, leislative) and at a local, national grienal, and/or international scale. In addition thinking be able to replore and critically assess analytic and institutional approaches for validating the selected crinonmental problem, and to fectively communicate research indings to both specialist and lay audiences. Coordinated and administered through the McGill Schooline from (MSE), the Enironment option is aimed at students who wish to use interdisciplinary approaches in their graduate research incommental issues and who wish to bene t from interactions that will occur as they interact with students from a wide range of disciplines.

section 11.2.7Master of Science (M.Sc.); Biology (Thesis) Neotropical Enronment (48 credits)

The McGill-Smithsoniar Tropical Research Institute (STRI) Neotropical/Expment Option (NEO) is a research-based option for M.Sc. or Ph.D. students in the departments of Inthropology Biology, Bioresource Engineering, Geograp Natural Resource Sciences, Plant Science, and Political Science at McGill University. The NEO is aimed at students who wish to focus their graduate research inconsential issues relient to the Neotropics and Latin American countries The typical NEO student has ary strong interest in consention because NEO courses focus on constitute in the program has diverse backgrounds, including both Laftinnerican and Canadian students, and must either speak Spanish or enrol in a Spanish course when they enter the program. NEQ fours interdisciplinary approaches to research and learning through the participation of researchers from McGill and from STRI. Accordingly, each student will have two co-supervisors, one from McGill and one from STRI. Students will complete their research in Latin America, and the NEO's core and complementary courses will be taugintainned. Participation in the MSE-Panama Symposium presentation in Montreal is also required Through this educational approach, NEO seeka dititate a broader understanding of tropical isomemental issues and the velopment of skills relevant to working in the tropics.

section 11.2.8Master of Science (M.Sc.); Biology (Thesis) Bioinformatics (48 credits)

The goal of the Bioinformatics option is to train students to become researchers in the interdisciplinary eld of Bioinformatics, which lies at the intersection of biological/medical sciences and mathematics/computer science/engin@bisingork includes the deelopment of stratgies for experimental design, the construction of tools to analyze datasets, the application of modelling techniques, the creation of tools for manipulating Bioinformatics data, the integration of biological databases, and the use of algorithms and staffistic@ioinformatics graduate option consists of a number of interdisciplinary courses, as well as a seminar designed to bring students from bands grounds together and to viote a thorough verview of research in this eldThe typical entering student will be af liated with one of about fourteefection home departments in three fetifient faculties, chosen based on his/her speci c eld of expertise, and will therefore meet the speci c requirements for that departments departments will additionally bevaluated according to requirements speci c to the Bioinformatics option. Students in this option with access to especialized courses that are open only to students within the Bioinformatics optionAt the M.Sc. level, students successfully completing the Bioinformatics option will be uent in the concepts, language, approaches, and limitations of the eld.

section 11.2.9Doctor of Philosophy (Ph.D.); Biology

The typical graduate student in this program has a strong backgrounded to eil and molecular biology ichemistry organismal biologyecology developmental biologyand statistics, often with special strengths in the area of proposed Chitechythe continuing trend ward interdisciplinary work, the program also accepts some students with a high scholastic standing word borhaleted a program in elds other than biology (medicine, engineering, chemistry physics, etc.) Admission is based on an actuation by the applicar strength supervison who is the faculty member who will proide supervision and nancial support for the studes tresearch, and by the Biology Gradu actual transfer of the students are encouraged to contact faculty members with whom the wish to study before applying for admission.

Alumni have gone on to pursue a wide range of careersy Maron to pursue postdoctoral research and later as according fpositions, while othersowk as researchers in industry iddife biologists, forensic technologists, or science postdoctoral research and later as according to the same as a researchers in industry iddife biologists, forensic technologists, or science postdoctoral research and later as according to the same as a research and later as according to the same as a research and later as a research a

section 11.2.10Doctor of Philosophy (Ph.D.); Biology Developmental Biology

section 11.2.1:1Doctor of Philosophy (Ph.D.); Biology Environment

The Environment graduate option feats students the opportunity to pursuaismment focused graduate research in the substitute range of different elds, including Anthropology Atmospheric and Oceanic Sciences, Biology presource Engineering, Earth and Planetary Sciences, Enterpology Epidemiology Experimental Medicine, Geograph Law, Microbiology, Plant Science, Arasitology Philosophy, Renewable Resources, and Sociology Through a program consisting of research, seminars, andotwises, this option adds a layer of interdisciplinarity that challenges students in defend their research and think in a broader constitution graduating from the M.Sc. or Ph.D. program under this firment option will therefore be able to understand and critically analyze aniremmental problem from serial perspecties (e.g., social, cultural, scientic, technological, ethical, economic, political, legislative) and at a local, national gienal, and/or international scale. In addition the bable to replore and critically assess analytic and institutional approaches for vibring the selected rinonmental problem, and to fectively communicate research in dings to both specialist and lay audiences. Coordinated and administered through the McGill School rounding graduate research in the substitution of the second graduate research in the substitution of the second graduation of the second graduate research in the substitution of the second graduation of the second graduatio

See section 6.3Application Pocedues (for All Admissions Starting Summer 2010) detailed application procedures.

11.2.3.2.1 Additional Requirements

The items and clari cations beloare additional requirements set by this department:

Acceptance by a research director who canideoadequate funding for personal and researcheses

11.2.3.3 Dates for Guaranteed Consideration

Canadian	International	Special/Exchange/isiting
Fall: March 15	Fall: Jan. 15	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Aug. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

If application materials are reveit after the Dates for Guaranteed Considerativiewof the applicans

Associate Pofessors

EhabAbouheif; M.Sc.(C'dia), Ph.D.(Dub)

Thomas E. Bureau; B.Sc.(Calif.), Ph.De(Tas) (Milliam Dawson Strolar)

Joseph

Adjunct Professors

CNRS Moulis, France: M. Loreau

IRCM: Michel Cayouette, Frédéric CharroArtur Kania, Marie Kmita

NRC Lab: Malcolm SWhiteway

STRI: Eldredge Bermingham, Rachel Collin, Hector Guzman, ÆdMlen Herre, Haris Lessios/Villiam Owen McMillan, MarkTorchin

Univ. de Montréal: Pierre Drapeau, Louis St-Amant

11.2.5 Master of Science (M.Sc.); Biology (Thesis) (45 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master'sThesis Research 1
BIOL 698	(13)	Master'sThesis Research 2
BIOL 699	(13)	Master'sThesis Research 3

Complementary Courses (6 credits)

Two 3-credit courses, or equalent, at the 500, 600, or 700/eth in Biology or other departments, and append by the Supervisory Committee.

11.2.6 Master of Science (M.Sc.); Biology (Thesis) En vironment (48 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master'sThesis Research 1
BIOL 698	(13)	Master'sThesis Research 2
BIOL 699	(13)	Master'sThesis Research 3

Required Courses (6 credits)

ENVR 610	(3)	Foundations of Evironmental Polity
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3

Complementary Courses (3 credits)

3 credits, one of the follwing courses:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Enironment
ENVR 680	(3)	Topics in Environment 4

or another graduate course at the 500 fler higher recommended by the advisory committee and varpe boy the Evironment Option Committee.

11.2.7 Master of Science (M.Sc.); Biology (Thesis) Neotr opical Environment (48 credits)

Participation in the MSE-Panama Symposium presentation in Montreal is also required.

Thesis Courses (39 credits)

BIOL 697	(13)	Master'sThesis Research 1
BIOL 698	(13)	Master'sThesis Research 2
BIOL 699	(13)	Master'sThesis Research 3

Required Courses (6 credits)

BIOL 640	(3)	Tropical Biology and Conseation
ENVR 610	(3)	Foundations of Evironmental Polig

Elective Courses (3 credits)

3 credits, at the 500Vel or higher on environmental issues to be chosen in consultation with and verptosy the studenst supervisoAND the Neotropical Environment Options Director

11.2.8 Master of Science (M.Sc.); Biology (Thesis) Bioinf ormatics (48 credits)

Thesis Courses (39 credits)

BIOL 697	(13)	Master'sThesis Research 1
BIOL 698	(13)	Master'sThesis Research 2
BIOL 699	(13)	Master'sThesis Research 3

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses (6 credits)

6 credits from the follwing courses:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics

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11.2.10 Doctor of Philosophy (Ph.D.); Biology De velopmental Biology

Thesis

A thesis for the doctoral gree must constitute original scholarship and must be a distinct cotional bo knowledge. It must sho familiarity with pre

ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Enironment
ENVR 680	(3)	Topics in Environment 4

or another graduate course at the 500, 600, or 7/00/rlecommended by the advisory committee and anedroby the Environment Option Committee.

11.2.12 Doctor of Philosophy (Ph.D.); Biology Neotr opical Environment

Participation in the MSE-Anama Symposium presentation in Montreal is also required.

Thesis

A thesis for the doctoral **g**ee must constitute original scholarship and must be a distinct cobiomillo knowledge. It must show familiarity. Ovoth familiarity. Ovoth familiarity. Ovoth familiarity. Ovoth familiarity ovoth familiarity. Ovoth familiarity ovoth familiarity. Ovoth familiarity ovoth familiarity. Ovoth familiarity ovoth familiarity ovoth familiarity. Ovoth familiarity ovoth fam

Required Courses (12 credits)

BIOL 640	(3)	Tropical Biology and Conseavion
BIOL 700	(0)	Doctoral Qualifying Examination
BIOL 702	(6)	Ph.D. Seminar
ENVR 610	(3)	Foundations of Evironmental Police

Elective Courses (3 credits)

3 credits, at the 500vlel or higher on environmental issues to be chosen in consultation with and vepto to the student's supervisor the Neotropical Environment Options Director

11.2.13 Doctor of Philosophy (Ph.D.); Biology Bioinf ormatics

11.3 Chemistry

11.3.1 Location

Department of Chemistry
Otto Maass Chemistry Building
801 Sherbrook StreetWest
Montreal, QC H3A 0B8
Canada

Telephone: 514-398-6999 Fax: 514-398-3797

Email: graduatechemistry@mcgill.ca Website:www.chemistrymcgill.ca

11.3.2 About Chemistry

Research in Chemistry

Members of the Department aregamized into arious research themes. Some of the current research interests are listeral tracket presented in much more detail on the Departmental websiteval webmistrymcgill.ca

Analytical - Environmental

Analytical-Environmental research at McGill entails a wide rangexofting fundamental and applied research with focus on state-of-the-art instrumental development in spectroscopimaging; chemometric and analytical bio-spectroscopitical intelligence; ultra trace sampling; state-of-the-art atmospheric kinetics and photochemistry; thermochemical, box, and cloud modelling; as well as though the number of state-of-the-art numerical models of the chemistry of the gional and global atmosphere. Our collectivesearch has direct implications in elds such as materialisopemental, and biomedical chemistry

Chemical Biology

The Chemical Biology hematic Group is enagged in a dierse range of research topics, which span structural biodogymologynucleic acid research, signalling pathways, single-molecule biographics, and biopyrsical chemistry of ting tissues Among the themes that unite the research being performed in this group is the attempt to learnwheemistry and pyrsics from biological systems.

We have projects relating to pharmaceutically **reliet** enzymes such as thoseolived in drug metabolism and antibiotic resistance etapment of therapeutic agents in the control of in ammation, cancer and viral infections; the chemical biology of NO; quantication **of detioementers** of metabolism; self-assembly mechanisms of the Hill Wirion capsid; liposome microarray systems to address membrane protein dynamics and recognition; studies on reactive oxygen species translsioener

properties of nanostructures and in the application of sophisticated spectroscopic tools toxplore them.

Synthesis Catalysis

The Synthesis/Catalysis Resea/Activity Group is a collective to develop the state-of-art catalysts, synthetic methodologies, reaction mechanisms, and synthetic routes for ganic chemicals, natural products, and materiate following are the major research actives at McGill: (1) Development of novel catalysts and catalysts and catalytic reactions for highly of cientatoric synthesis; Green Chemistry is includes the study and dispersy of novel transition-metal catalysts, biological catalysts, nano- and dendribrased catalysts for synthetic purposesy obsernical reactivity such as C-H actiation, asymmetric catalysis and theorymulti-component reactions and combinatorial chemistry; viatrice chemistry in alternavie solvents such as artic; sub-critical water, ionic liquids, and liquid CO2; photocatalytic reactions, reaction mechanisms, varidablioganic chemistry; and computational chemist(2) Synthesis of biological compounds, ganic materials, and natural products of areas are total synthesis of natural products, synthesis/Actional and anticancer nucleoside analogues, synthesis of amino acid and peptides; synthesis and study/dot/teadeadatives; design, synthesis, and study/dot/teadeadatives; design, synthesis, and study/dot/teadeadatives; design, synthesis, and study/dot/teadeadatives; design,

section 11.3.5Master of ScienceApplied (M.Sc.A.); Chemistry (Non-Thesis) (45 credits)

(Not ofered in 2012 2013)

section 11.3.6Master of Science (M.Sc.); Chemistry (Thesis) (45 credits)

Please consult the Department for more information about this program.

section 11.3.7Master of Science (M.Sc.); Chemistry (Thesis) Chemical Biology (45 credits)

(Not ofered in 2012 2013)

section 11.3.8Doctor of Philosophy (Ph.D.); Chemistry

Please consult the Department for more information about this program.

section 11.3.9Doctor of Philosophy (Ph.D.); Chemistry Chemical Biology

(Not ofered in 2012-201)3

11.3.3 Chemistry Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

11.3.3.1 Admission Requirements

The minimum academic standard for admission to research the company of the minimum standing sequent to a cumulate grade point we rage (CGFA) of 3.0 out of a possible 4.0 or a CASF 3.2/4.0 for the last twifull-time academic year Applicants from other institutions should be academic background equialent to that of a McGill graduate in the Chemistry Honours/Major programs. If possible, candidates should specify the eld of research in which they are interested.

11.3.3.2 Application Procedures

McGill s online application form for graduate program candidate atwwwmcgill.ca/gadapplicants/apply

See section 6.3Application Pocedues (for All Admissions Starting Summer 2016) detailed application procedures.

FINANCIAL ASSISTANCE

M.Sc. and Ph.D Degrees

Graduate students where 12 hours per week (contact hours, plus grading of reports, etc.) during the academic session to their teaching duties. Financial assistance during the remainder of the year is pro



Note: We are not willing to consider prapplications to be admitted for the Summer term.

All inquiries concerning graduateowk in the Department should be addressed to the Director of Graduate Studies, Department of Chemistry

Revision, October 2012. End of revision.

11.3.4 Chemistry Faculty

Chair

R.B. Lennox

Director of Graduate Studies

N. Moitessier

Emeritus Professors

T.H. Chan; B.Sc.(or.), M.A., Ph.D.(Princ.), FC.I.C., FR.S.C.

A. Eisenbeg; B.S.(Wor. Poly.), M.A., Ph.D.(Princ.), Æ.I.C.

B.C. Eu; B.Sc.(Seoul), Ph.D.(Baron)

D.F.R. Gilson; B.Sc.(Umi Coll., Lond.), M.Sc., Ph.D.(BCol.)

D.G. Gray; B.Sc.(Belf.), M.Sc., Ph.D.(Manit.), CFI.C.

J.F. Harrod; B.Sc., Ph.D.(Birm.), FR.S.C.

A.S. Hay; B.Sc.(Alta.), Ph.D.(III.), .R.S.

R.H. Marchessault; B.Sc.(Mon)trPh.D.(McG.), FC.I.C., FR.S.C.

M.A. Whitehead; B.Sc., Ph.D., D.Sc.(Lond.)CFI.C.

Revision, October 2012. Start of revision.

Professors

B.A. Arndtsen; B.A.(Ca), Ph.D.(Stan.)

D.S. Bohle; B.A.(Reed), M.Phil., Ph.D.(Auck.)

D.H. Burns; B.Sc.(Puget Sound), Ph.Da(\$M.)

I.S. Butler; B.Sc., Ph.D.(Brist.), €.I.C.

M.J. Damha; B.Sc., Ph.D.(McG.), OF.I.C.

D.N. Harpp; A.B. (Middlebury), M.A. (Wesl.), Ph.D. (N. Carolina), €.I.C.

R.B. Lennox; B.Sc., M.Sc., Ph.Do(T), F.C.I.C., F.R.S.C.

C.J. Li; B.Sc.(Zhengzhou), M.S.(ChiAcad. Sci.), Ph.D.(McG.), R.S.C.

D.M. Ronis; B.Sc.(McG.), Ph.D.(MIT)

E.D. Salin; B.Sc.(Calif.), Ph.D.(Ore.), F.I.C.

B.C. Sanctuary; B.Sc., Ph.D.(BCol.)

H. Sleiman; B.Sc.(A.U.B.), Ph.D.(Stan.)

Y.S.Tsantrizos; B.Sc., M.Sc., Ph.D.(McG.)

T.G.M. van deVen; Kand. Doc.(Utrecht), Ph.D.(McG.)

Revision, October 2012. End of revision.

Associate Pofessors

M.P. Andrews; B.Sc., M.Sc., Ph.D.(7.)

P. Ariya; B.Sc., Ph.D.(Vrk)

Associate Pofessors

K. Auclair; B.Sc.(UQAC), Ph.D.(Alta.)

C.J. Barrett; B.Sc., M.Sc., Ph.D.(Qu.)

G. Cosa; B.Sc.(Agrentina), Ph.D.(Ott.)

W.C. Galley; B.Sc.(McG.), Ph.D.(Calif.)

 $J.L. \; Gleason; \; B.Sc.(McG.), \; Ph.Di(\c y.)$

A. Kakkar; B.Sc., M.Sc.(Chan. U., India), Ph.Da(V)

Р

(24-31 credits)

At least 24 credits chosen from the foliog:

M.Sc.Thesis Research 1	(3)	CHEM 691
M.Sc.Thesis Research 2	(6)	CHEM 692
M.Sc.Thesis Research 3	(9)	CHEM 693
M.Sc.Thesis Research 4	(12)	CHEM 694
M.Sc.Thesis Research 5	(15)	CHEM 695
M.Sc.Thesis Research 7	(9)	CHEM 697
M.Sc.Thesis Research 8	(12)	CHEM 698

Required Courses

(5 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses

(9-16 credits)

Students will normally task 9-16 credits of CHEM (or appared) courses at the 500 or 600dle

11.3.7 Master of Science (M.Sc.); Chemistry (Thesis) Chemical Biology (45 credits)

(Not offered in 2012-2013)

Thesis Courses (24 credits)

(minimum 24 credits)

At least 24 credits chosen from the foliog:

CHEM 691	(3)	M.Sc.Thesis Research 1
CHEM 692	(6)	M.Sc.Thesis Research 2
CHEM 693	(9)	M.Sc.Thesis Research 3
CHEM 694	(12)	M.Sc.Thesis Research 4
CHEM 695	(15)	M.Sc.Thesis Research 5
CHEM 697	(9)	M.Sc.Thesis Research 7
CHEM 698	(12)	M.Sc.Thesis Research 8

Required Courses (5 credits)

CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment

Complementary Courses (11 credits)

(minimum 11 credits)

2 credits, two of the following courses:

BIOC 610	(1)	Seminars in Chemical Biology 1
BIOC 611	(1)	Seminars in Chemical Biology 3
BIOC 689	(1)	Seminars in Chemical Biology 2
BIOC 690	(1)	Seminars in Chemical Biology 4

Students will take at least three courses from the forling list, including at least 3 credits from the rstdwourses listed believed.

Genomics and Gene Expression

11.3.9 Doctor of Philosophy (Ph.D.); Chemistry Chemical Biology

(Not offered in 2012-2013)

Thesis

A thesis for the doctoral **green** must constitute original scholarship and must be a distinct **cotionnilto** knowledge. It must sho familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizer results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates dance knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses

BIOC 610	(1)	Seminars in Chemical Biology 1
BIOC 611	(1)	Seminars in Chemical Biology 3
BIOC 689	(1)	Seminars in Chemical Biology 2
BIOC 690	(1)	Seminars in Chemical Biology 4
CHEM 650	(1)	Seminars in Chemistry 1
CHEM 651	(1)	Seminars in Chemistry 2
CHEM 688	(3)	Assessment
CHEM 701	(0)	Comprehensie Examination 1
CHEM 702	(0)	Comprehensie Examination 2

Complementary Courses

Students entering the program with an M.S**grede** will normally take three (3) graduate-**lee**l courses. Students entering without an M.S**grede** will normally take ve (5) graduate-**lee**l coursesAt least three courses must be from the **foiling** list, including at least 3 credits from the rstdvoourses listed below.

BIOC 603	(3)	Genomics and Gene Expression
BIOC 604	(3)	Macromolecular Structure
CHEM 502	(3)	Advanced Bio-Oganic Chemistry
CHEM 503	(3)	Drug Design and Delopment 1
CHEM 504	(3)	Drug Design and Delopment 2
CHEM 514	(3)	Biophysical Chemistry
CHEM 522	(3)	Stereochemistry
CHEM 591	(3)	Bioinorganic Chemistry
CHEM 621	(5)	Reaction Mechanisms in §amic Chemistry
CHEM 629	(5)	Organic Synthesis
CHEM 655	(4)	Advanced NMR Spectroscopp
PHAR 503	(3)	Drug Discovery and Deelopment 1
PHAR 504	(3)	Drug Discovery and Deelopment 2
PHAR 562	(3)	General Pharmacology 1
PHAR 563	(3)	General Pharmacology 2
PHAR 707	(3)	Topics in Pharmacology 6

The remaining credits may be 500-, 600-, or 70@Heourses appred by the Department.

11.4 Computer Science

11.4.1 Location

School of Computer Science McConnell Engineering, Room 318 3480 University Street Montreal, QC H3A 0E9 Canada

Telephone: 514-398-7071xte 00074

Fax: 514-398-3883 Email: grad.cs@mcgill.ca Website:wwwcs.mcgill.ca

11.4.2 About Computer Science

The School of Computer Science is one of the leading teaching and research centres for computer science Me Offenad Rh.D. program and were a M.Sc. programs All include cours work and research. In the basic M.Sc. programs, students must choose between the thesis option, and the non-thesis option, which requires a project Ph.D. program includes an option in bioinformatics, and the thesis M.Sc. program includes options in bioinformatics and in Computational Science and Engineering. Students are normally funded by their adviser's research grants; in the case of scholarship students, this typically takes the form of a 'top-up' to the scholarship. Research in the Schreck advocad range of areas, including:

Professors

- D. Avis; B.Sc.(Wat.), Ph.D.(Stan.)
- L. Devroye; M.S.(Louvain), Ph.D.(Texas) (James McGill Pofesso)
- G. Dudek; B.Sc.(Qu.), M.Sc., Ph.Do(TT) (James McGill Pofesso)
- L. Hendren; B.Sc., M.Sc.(Qu.), Ph.D.(C'nell)RFS.C. Canada Reseah Chair)
- P. Panangaden; M.Sc.(IIT, Kanpur), M.S.(Chic.), Ph.D.(186c.)
- B. Reed; B.Sc., Ph.D.(McG.Canada Resealn Chair)
- K. Siddiqi; B.Sc.(Lafayette), M.Sc., Ph.D.(Bwon) (William Dawson Chai)
- D. Thérien; B.Sc.(Mont), M.Sc., Ph.D.(Vatt.) (James McGill Pofesso)

Revision, October 2012. End of revision.

Associate Pofessors

- M. Blanchette; B.Sc., M.Sc.(Mon)tr Ph.D.(Wash.)
- X.W. Chang; B.Sc., M.Sc.(Nanjing), Ph.D.(McG.)
- C. Crépeau; B.Sc., M.Sc.(Montr

Associate Members

- D. Schlimm Philosophy
- R. Sengupta Geography)
- B.F. Shepherd Mathematics & Statistics
- T.R. Shultz (Psychology)
- R. Sieber Geography)

Adjunct Professors

P.J. MostermanT. Perkins, I. Rekleitis, G.O. Sabidussi, Tabaeh Izadi, .Fesson, Hl/angheluwe

11.4.5 Master of Science (M.Sc.); Computer Science (Thesis) (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

Complementary Courses (21 credits)

At least 21 credits of 500-, 600-, or 7004eCOMP courses, including at least 12 credits of 4-credit courses.

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMP 697.

11.4.6 Master of Science (M.Sc.); Computer Science (Thesis) Computational Science and Engineering (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

Required Courses

One credit selected as follo

COMP 669D1	(.5)	Computational Science Engineering Seminar
COMP 669D2	(.5)	Computational Science Engineering Seminar

Complementary Courses

(minimum 21 credits)

Two courses from List, two courses from List B, and the remaining credits to be chosen from graduate (500-, 600-, 100-) the School of Computer Science wo complementary courses must be taleutside the School of Computer Science.

Note: Students with an appropriate background can substitute 3 credits by COMP 696 and 4 credits by COMPRit6974 to tak 6-8 credits from List A and 6-8 credits from List B.

List A: Scientific Computing Courses:

CIVE 602	(4)	Finite ElementAnalysis
COMP 522	(4)	Modelling and Simulation
COMP 540	(3)	Matrix Computations
COMP 566	(3)	Discrete Optimization 1
MATH 578	(4)	NumericalAnalysis 1
MATH 579	(4)	Numerical Diferential Equations

List B: Application and Specialized Methods Courses:

ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence in Atmosphere and Oceans
CIVE 572	(3)	Computational Hydraulics
CIVE 603	(4)	Structural Dynamics
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computersion
COMP 567	(3)	Discrete Optimization 2
COMP 621	(4)	ProgramAnalysis and Transformations
COMP 642	(4)	Numerical Estimation Methods
COMP 767	(4)	AdvancedTopics:Applications 2
ECSE 507	(3)	Optimization and Optimal Control
ECSE 532	(3)	Computer Graphics
ECSE 547	(3)	Finite Elements in Electrical Engineering
ECSE 549	(3)	Expert Systems in Electrical Design
MATH 555	(4)	Fluid Dynamics
MATH 560	(4)	Optimization
MATH 761	(4)	Topics inApplied Mathematics 1
MECH 533	(3)	SubsonicAerodynamics
MECH 537	(3)	High-SpeedAerodynamics
MECH 538	(3)	UnsteadyAerodynamics
MECH 539	(3)	ComputationaAerodynamics
MECH 541	(3)	Kinematic Synthesis
MECH 572	(3)	Introduction to Robotics
MECH 573	(3)	Mechanics of Robotic Systems
MECH 576	(3)	Geometry in Mechanics

11.4.7 Master of Science (M.Sc.); Computer Science (Thesis) Bioinf ormatics (45 credits)

Thesis Courses (24 credits)

24 credits selected from:

COMP 691	(2)	Thesis Research 1
COMP 696	(3)	Thesis Research 2
COMP 697	(4)	Thesis Research 3
COMP 698	(9)	Thesis Research 4
COMP 699	(15)	Thesis Research 5

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar

Complementary Courses (18 credits)

6 credits chosen from the folking courses:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biolybics

12 credits of 4-credit courses chosen from 500-, 600-, or 7400 Decemputer Science courses in consultation with the candidate pervisor Note: Students with an appropriate background can substitute 4 credits by COMP 697.

11.4.8 Master of Science (M.Sc.); Computer Science (Non-Thesis) (45 credits)

Research Project (15 credits)

15 credits selected as folks:

COMP 693	(3)	Research Project 1
COMP 694	(6)	Research Project 2
COMP 695	(6)	Research Project 3

Complementary Courses (30 credits)

30 credits (nine courses), of which 12 credits must be of 4-credit courses at the 500 600vert 700CIGMP courses.

11.4.9 Doctor of Philosophy (Ph.D.); Computer Science

Required courseork: Students must takeight graduate courses, of which at least are computer science courses courses should be chosen by the student in consultation with the supervisor (or co-supervisor) and the Progress Committee.

Thesis

A thesis for the doctoral **ge**ee must constitute original scholarship and must be a distinct **cubiothilbo** knowledge. It must sho familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagehizer results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses

COMP 700	(0)	Ph.D. Comprehense Examination
COMP 701	(3)	Thesis Proposal anArea Examination

Complementary Courses

18-24 credits selected from:

Category A: Theory and Applications

COMP 523	(3)	Language-based Security
COMP 524	(3)	Theoretical Foundations of Programming Languages
COMP 525	(3)	FormalVeri cation
COMP 531	(3)	AdvancedTheory of Computation
COMP 540	(3)	Matrix Computations
COMP 547	(4)	Cryptography and Data Security
COMP 552	(4)	Combinatorial Optimization
COMP 554	(4)	ApproximationAlgorithms
COMP 560	(3)	GraphAlgorithms and Applications
COMP 561	(4)	Computational Biology Methods and Research
COMP 564	(3)	Computational Gene Relation
COMP 566	(3)	Discrete Optimization 1
COMP 567	(3)	Discrete Optimization 2
COMP 598	(3)	Topics in Computer Science 1
COMP 599	(3)	Topics in Computer Science 2
COMP 610	(4)	Information Structures 1
COMP 618	(3)	Bioinformatics: Functional Genomics
COMP 627	(4)	Theoretical Programming Languages
COMP 642	(4)	Numerical Estimation Methods
COMP 647	(4)	Advanced Cryptograph
COMP 649	(4)	Quantum Cryptograph
COMP 680	(4)	Mining Biological Sequences
COMP 690	(4)	ProbabilisticAnalysis ofAlgorithms
COMP 760	(4)	AdvancedTopicsTheory 1
COMP 761	(4)	AdvancedTopicsTheory 2

Category B: Systems and Applications

COMP 512	(4)	Distributed Systems
COMP 520	(4)	Compiler Design
COMP 521	(4)	Modern Computer Games
COMP 522	(4)	Modelling and Simulation
COMP 526	(3)	Probabilistic Reasoning anAd
COMP 529	(4)	SoftwareArchitecture
COMP 533	(3)	Object-Oriented Software Development

COMP 535	(3)	Computer Networks 1
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computerision
COMP 575	(3)	Fundamentals of DistribtedAlgorithms
COMP 598	(3)	Topics in Computer Science 1
COMP 599	(3)	Topics in Computer Science 2
COMP 612	(4)	Database Programming Principles
		Distributed 1 100 0 1 221.949 20617eS

11.5.3.1 Admission Requirements

Applicants should have an academic background explicit to that of a McGill graduate in the Honours or Majors program in geoglegylysics, chemistry or physics (3.0 out of 4.0) The admissions committee may modify the requirements expling with the eld of graduate study proposed. In some cases, a Qualifying year may be required.

11.5.3.2 Application Procedures

Assistant Professors

Eric Galbraith; B.Sc.(McG.), Ph.D.(BCol.)

Sarah Hall; B.A.(Hamilton), Ph.D.(Calif.-Santa Cruz)

Yajing Liu; B.Sc.(Peking), Ph.D.(Hajv

Jefrey McKenzie; B.Sc.(McG.), M.Sc., Ph.D.(Syrac.)

Christie Rove; A.B. (Smith), Ph.D. (Calif.-Santa Cruz)

Vincent van Hinsbeg; Propadeuse(Utrecht), Doctorandus(Utrecht), Ph.D.(Brist.)

BoswellWing; A.B. (Harv.), M.A., Ph.D. (Johns Hop.) (Qanada Reseath Chair in Earth Systems Science (Greensistry)

Faculty Lecturer

W. Minarik; B.A.(St. Olaf), M.Sc.(Wash.), Ph.D.(Rensselaer P.) bly

Adjunct Professors

M. Duchesne, M. Riedel, H. Short, B. Sundlicky Trzcienski

Retired Professor

R. Hesse

11.5.5 Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) (45 credits)

Thesis Courses (33 credits)

EPSC 697	(9)	Thesis Preparation 1
EPSC 698	(12)	Thesis Preparation 2
EPSC 699	(12)	Thesis Preparation 3

Required Course (3 credits)

EPSC 666 (3) Current Issues in Geosciences

Complementary Courses (9 credits)

Three 3-credit 500-, 600-, or 700/te EPSC courses chosen with the approf the supervisor or the research director and GPS.

11.5.6 Master of Science (M.Sc.); Earth and Planetary Sciences (Thesis) En vironment (48 credits)

Thesis Courses (33 credits)

EPSC 697	(9)	Thesis Preparation 1
EPSC 698	(12)	Thesis Preparation 2
EPSC 699	(12)	Thesis Preparation 3

Required Courses (9 credits)

ENVR 610	(3)	Foundations of Evironmental Polig
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
EPSC 666	(3)	Current Issues in Geosciences

Complementary Courses (6 credits)

One 3-credit course at the 500, 600, or 700 lehosen with the appral of the supervisor or research director and GPS.

3 credits chosen from the folking courses:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Exironment
FNVR 680	(3)	Topics in Environment 4

or another course at the 500, 600, or 700 lecommended by the advisory committee and applicate the Evironment Option Committee.

11.5.7 Doctor of Philosophy (Ph.D.); Earth and Planetary Sciences

Highly quali ed B.Sc. graduates may be admitted directly to the Ph.D. 1 Spearents with the M.Sc. gree are normally admitted to the Ph.D. 2 year Students are required to teatix graduate-leel courses in the Ph.D. 1 yeard two courses plus a comprehensional examination in the Ph.D. 2 year Note: The Ph.D. requirements for this program will be changifreptive Winter 2013.

Thesis

A thesis for the doctoral **gie**e must constitute original scholarship and must be a distinct **cobiothilbo** knowledge. It must show familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagehizer results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates dances knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses

EPSC 666	(3)	Current Issues in Geosciences		
EPSC 700	(0)	Preliminary Doctoral Examination		

Complementary Courses

One to seen courses appred at the 500, 600, or 700/teb selected in consultation with the student's supervisor ption Committee.

One to ve courses

One course chosen from the following courses:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Enironment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500, 600, or 700 lecommended by the advisory committee with the student's supervisor and dippreha-cademic Standing Committee

Zero to four courses at the 500, 600, or 700 ellected in consultation with the student's supervisor and reaching the Academic Standing Committee.

11.6 Geography

11.6.1 Location

Department of Geograph
Burnside Hall
805 Sherbrook StreetWest, Room 705
Montreal, QC H3A 0B9
Canada

Telephone: 514-398-4111 Fax: 514-398-7437

Email: grad.geg@mcgill.ca Website:wwwgeg.mcgill.ca

11.6.2 About Geography

The Department of Geographoffers research and thesis-based graduate programs leading to a Master (MfA.), a Master of Science (M.Sc.), or a doctorate (Ph.D.). In its scope, our program includes the opportunity to conduct eld-based studies in both the naturaly is iteally imposs the social sciences. Thematic areas of study include Political, Urban, Economic, and Health Geographonment and Human Delopment; Geographic Information Systems and Remote Sensing; Land Aster Processes; Earth Systems Science; anind timental Management. Geographouses the Hitsch eld Geographic Information Centre, maintains the McGill Highratic Research Station (Ask Heiburg Island, Nunaut Territory) and the McGill Sub-Arctic Research Station (Scheferville, Québec), and has strong ties with McGillschool of Evironment and the Centre for Climate and Global Change Research students conduct research in elds are relief as climate change impacts, periglacial geomorphology forest resource history ingreens ranging from the Arctic to Southeas and Latin America.

McGill Norther n Reseach Stations

The McGill Sub-Arctic Research Station is located in Stelmeifle, in the centre of Quebec-Labrad Eacilities exist for research in most areas of yptical and some areas of human geographthe subarctic.

McGill University also operates a eld station at Expedition Fior (A) well Heibeg Island in the HighArctic. Facilities are limited to a small lab, dorm building, and cookhouse. Research vaitities focus on the glacial and geologicatir (Edditional information on these stations, contact the Scienti c Director Wayne Pollard, Department of Geograph

Centre for Climate and Global Change Researth

The Department of Geographwith the McGill Departments of tmospheric and Oceanic Sciences, Economics, Natural Resource Sciencese and se departments from the inversité du Québec à 9 367Y647.g I6.802 Tm 38.8u9cc 6767Y647.g I6 du 1 0638.8u9cc 67c2522 T8rtments from the

Faculty of Science Graduate>

11.6.3.1 Admission Requirements

M.A. and M.Sc. Degrees

Applicants not satisfying the conditions inection 6 GraduateAdmissions and application Pocedues but with primary undegraduate specialization in a cognate eld, may be admitted to the M.A. or M.Sigrete in Geographin certain circumstances. In generally, then do there who has deciencies in their preparation but are otherwise judged to be acceptable, will be require objected a Qualifying program or to understand ditional courses.

Ph.D. Degree

Students who have completed a master scale in Geograph (with high standing) may be admitted at the Ph.Dv2lle

On rare occasions, a student may be admitted to the Plotaedwithout haing rst taken the master's gleec. They, and others who has de ciencies in their preparation but are otherwise acceptable, will be required to take transport to

Normally, the Department will restrict admission to the Ph.D. program to students prepared to one of the elds of human or postical geograph in which specialized supervision is tested. These, which over a wide range of systematic areas, are listed in documentable from the Department.

11.6.3.2 Application Procedures

McGill s online application form for graduate program candidate aikable atwww.mcgill.ca/gadapplicants/apply

See section 6.3Application Pocedues (for All Admissions Starting Summer 2010) detailed application procedures.

11.6.3.2.1 Additional Requirements

The items and clari cations beloare additional requirements set by this department:

Research Proposal

Letters of Reference three references required for Ph.D. program

Department application form

11.6.3.3 Dates for Guaranteed Consideration

Canadian	International	Special/Exchange/ikiting
Fall: Jan. 15 (nal cut-df Jan. 31)	Fall: Jan. 15 (nal cut-df Jan. 31)	Fall: Jan. 15 (nal cut-df Jan. 31)
Winter: N/A	Winter: N/A	Winter: N/A
Summer: N/A	Summer: N/A	Summer: N/A

Revision, October 2012. End of revision.

11.6.4 Geography Faculty

Chair		
T. R. Moore		
Graduate Program Director		
GeogeW. Wenzel		
Post-Retirement		
S.H. Olson; M.A., Ph.D.(Johns Hop.)		

Revision, October 2012. Start of re

Revision, October 2012. End of revision.

Associate Pofessors

11.6.6 Master of Science (M.Sc.); Geography (Thesis) En vironment (45 credits)

The Environment Option is dered in association with the McGill School of Venonment and is composed of a thesis component (24 credits), required Geograph and Environment courses (9 credits) and complementary Geograph Environment (12 credits) courses.

Thesis Courses (24 credits)

GEOG 697	(18)	Thesis Research (Einnonment Option)
GEOG 698	(6)	Thesis Proposal

Required Courses (9 credits)

ENVR 610	(3)	Foundations of Evironmental Police
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
GEOG 631	(3)	Methods of Geographical Research

Complementary Courses (12 credits)

9 credits of courses at the 50**0d**eor higher selected according to guidelines of the Department. GEOG 696 can count among these complementary credits for students with an appropriate background.

3 credits, one course chosen from the foiling:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling
ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Environment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500deor higher recommended by the advisory committee and vapp bay the Evironment Option Committee.

11.6.7 Master of Science (M.Sc.); Geography (Thesis) Neotr opical Environment (45 credits)

Participation in the MSE-Anama Symposium presentation in Montreal is also required.

Thesis Courses (30 credits)

GEOG 698	(6)	Thesis Proposal
GEOG 699	(24)	Thesis Research

Required Courses (9 credits)

BIOL 640	(3)	Tropical Biology and Conseavion
ENVR 610	(3)	Foundations of Evironmental Polig
GEOG 631	(3)	Methods of Geographical Research

Complementary Course (3 credits)

3 credits, one Geographyraduate course. GEOG 696 can count among these complementary credits for students with an appropriate background.

Elective Course (3 credits)

3 credits, at the 500Vel or higher on environmental issues to be chosen in consultation with and vaplary the student supervisoAND the Neotropical Environment Options Director

11.6.8 Doctor of Philosophy (Ph.D.); Geography

The doctoral degree in Geographincludes the successful completion of the comprehensiamination, a thesis based on original research and woorkse chosen in collaboration with the studenstupervisor and/or research committee main elements of the Ph.D. are the thesis and comprehensianination, a required Methods of Geographical Research course (3 credits), and a minimum confried mentary courses (6 credits) e Ph.D. in Geographalso includes sweral options.

Thesis

A thesis for the doctoral **gree** must constitute original scholarship and must be a distinct cution to knowledge. It must show familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagent presents, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates and conclusions in the public domain.

Required Courses

GEOG 631	(3)	Methods of Geographical Research
GEOG 700	(0)	Comprehensie Examination 1
GEOG 701	(0)	Comprehensie Examination 2
GEOG 702	(0)	Comprehensie Examination 3

Complementary Courses

Two courses at the 500, 600, or 70@leselected according to guidelines of the Department.

11.6.9 Doctor of Philosophy (Ph.D.); Geography En vironment

The option consists of the thesis and comprehension in the research courses (9 credits) from Geographid Environment and complementary courses (9 credits) in Environment or other elds recommended by the research committee and properties of the environment of the committee.

Thesis

A thesis for the doctoral **gree** must constitute original scholarship and must be a distinct **cotionnilto** knowledge. It must sho familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizer results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates above advices knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses

ENVR 610	(3)	Foundations of Evironmental Policy
ENVR 650	(1)	Environmental Seminar 1
ENVR 651	(1)	Environmental Seminar 2
ENVR 652	(1)	Environmental Seminar 3
GEOG 631	(3)	Methods of Geographical Research

Complementary Courses

Two courses at the 500, 600, or 70% leselected according to guidelines of the Department.

One course chosen from the following:

ENVR 519	(3)	Global Environmental Politics
ENVR 544	(3)	Environmental Measurement and Modelling

ENVR 620	(3)	Environment and Health of Species
ENVR 622	(3)	Sustainable Landscapes
ENVR 630	(3)	Civilization and Enironment
ENVR 680	(3)	Topics in Environment 4

or another course at the 500deor higher recommended by the advisory committee and veryboy the Evironment Option Committee.

Comprehensives

GEOG 700	(0)	Comprehensie Examination 1
GEOG 701	(0)	Comprehens/ie Examination 2
GEOG 702	(0)	Comprehens/ie Examination 3

11.6.10 Doctor of Philosophy (Ph.D.); Geography Gender and Women's Studies

The graduate option in Gender aNdmen's Studies is an interdisciplinary program for students who meeting dequirements in Geograph wish to earn 9 credits of appred cours work focusing on gender and men's studies, and issues in feminist research and methods doctoral thesis must be on a topic centrally relating to issues of gender and/noew/s studies.

Thesis

A thesis for the doctoral **ge**ee must constitute original scholarship and must be a distinct **cobiomilio** knowledge. It must show familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizor results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates advices knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and school and for publication in the public domain.

Required Courses

GEOG 631	(3)	Methods of Geographical Research
GEOG 700	(0)	Comprehensie Examination 1
GEOG 701	(0)	Comprehensie Examination 2
GEOG 702	(0)	Comprehensie Examination 3
WMST 601	(3)	FeministTheories and Methods
WMST 602	(3)	Feminist Research Symposium

Complementary Courses

Two substantie courses.

One of these too courses must be teak within the Department of Geograyphat the 500 level or above; one of the too courses must be on gendeon/nuen's issues at the 500, 600, or 700 de

11.6.11 Doctor of Philosophy (Ph.D.); Geography Neotr opical Environment

The Neotropical Option is **ter**ed in association with **ser**al University departments, the McGill School of **ter**onment, and the Smithsonian opical Research Institute (STRIanama) and includes the thesis, comprehensial minimum and includes the thesis, comprehensial minimum and sology and complementary courses (3 credits) chosen from Geographiculture Sciences, Biology Sociology Environment, and Political Science.

Participation in the MSE-&nama Symposium presentation in Montreal is also required.

Thesis

A thesis for the doctoral **ge**ee must constitute original scholarship and must be a distinct **cobiomilio** knowledge. It must show familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizor results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates advices knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses

BIOL 640	(3)	Tropical Biology and Conseavion
ENVR 610	(3)	Foundations of Evironmental Polig
GEOG 631	(3)	Methods of Geographical Research
GEOG 700	(0)	Comprehensie Examination 1
GEOG 701	(0)	Comprehensie Examination 2
GEOG 702	(0)	Comprehensie Examination 3

Elective Courses

3 credits, at the 500Vel or higher on environmental issues to be chosen in consultation with and verptoy the student supervisoAND the Neotropical Environment Options Director

11.7 Mathematics and Statistics

11.7.1 Location

Department of Mathematics and Statistics Burnside Hall, Room 1005 805 Sherbrook StreetWest Montreal, QC H3A 0B9 Canada

Telephone: 514-398-3800 Fax: 514-398-3899

Email: grad.mathstat@mcgill.ca Website:wwwmath.mcgill.ca

11.7.2 About Mathematics and Statistics

The Department of Mathematics and Statistics leading to masters degrees (M.A. or M.Sc.), with program options in Bioinformatics and in CSE (Computational Science and Engintering)earch groups are: Algebra Catgory; Theory and Logic; Geometric Groutheory; Algebraic Geometry; Discrete Mathematics; Mathematics; Mathematics; Applications; Differential Geometry; Number Mathematics; Differential Equations; and Probability and Statistics. In the basic resaster programs, students must choose between the thesis option, and the non-thesis option which require to the Ph.D. program in Mathematics and Statistics, there is a Ph.D. option in Bioinformatics.

The Department website/(wmath.mcgill.c) provides extensive information on the Department and assifities, including the research addies and the research interests of invital faculty members. It also primes detailed information, supplementary to Phagrams, Couses and University Regulations publication, concerning our programs, admissions, funding of graduate students, thesis requirements, advice concerning the choice of courses, etc.

Students are ged to consult the website/(wmath.uqam.ca/IS)/of theInstitut des Sciences Mathématiq((LSM)), which coordinates intermediate and advanced-level graduate courses among Montreal and Queberesities A list of courses vailable under the ISM auspices can be obtained from the ISM website. The ISM also offers fellowships and promotes aniety of joint academic antities greatly enhancing the mathematicalismment in Montreal and in the proince of Quebec.

Faculty of Arts > Graduate > Academic Programs Mathematics and Statistics: Master of Arts (M.A.); Mathematics and Statistics (Thesis) (45 credits)

The Department of Mathematics and Statistics refprograms with concentrations in applied mathematics, pure mathematics, and statistics leading to the Master's degree (M.A.). The thesis option requires a thesis (24 credits) and six was proposed from the credits and statistics are statistics and statistics and statistics leading to the Master's degree (M.A.). The thesis option requires a thesis (24 credits) and six was proposed from the credits are statistics.

Faculty of Arts > Graduate > Academic Programs Mathematics and Statistics : Master of Arts (M.A.); Mathematics and Statistics (Non-Thesis) (45 credits)

The Department of Mathematics and Statistiosrefprograms with concentrations in applied mathematics, pure mathematics, and statistics leading to the master's degree (M.A.). The non-thesis option requires a project (16 credits) and eightwapprourses of 3 or more credits each for a total of at least 29 credits.

A master's degree with high standing is required, in addition to the requirements listed fabrathe mastes program. Students may transfer directly from the mastes program to the Ph.D. program under certain conditions. Students without a magnitude stude with exceptionally strong underaduate training, may be admitted directly to Ph.D. 1.

11.7.3.2 Application Procedures

McGill s online application form for graduate program candidatexaitable atwwwmcgill.ca/gadapplicants/apply

See section 6.3Application Pocedues (for All Admissions Starting Summer 2010) detailed application procedures.

11.7.3.2.1 Additional Requirements

The items and clari cations beloare additional requirements set by this department:

Research Proposal

Applicants in pure and applied mathematics shouldipleca GRE score report, if vailable

For more details, please consult the websitevatvmath.mcgill.ca/students/agduate/application

11.7.3.3 Dates for Guaranteed Consideration

Canadian	Inter national	Special/Exchange/\isiting
Fall: May 1	Fall: Feb 1	Fall: Same as Canadian/International
Winter: Oct. 15	Winter: Sept. 15	Winter: Same as Canadian/International
Summer: N/A	Summer: N/A	Summer: N/A

Revision, October 20121 170.504 655I.84 548.a1 0 3.965 46aG04 .Tj1 0 0 1 41a0yesFebRen..751j/F4.980449216 0.8431 rg0.9804 0.9216 0.8431

Complementary Courses (21 credits)

At least six appro

CIVE 602	(4)	Finite ElementAnalysis
COMP 522	(4)	Modelling and Simulation
COMP 540	(3)	Matrix Computations
COMP 566	(3)	Discrete Optimization 1
MATH 578	(4)	NumericalAnalysis 1
MATH 579	(4)	Numerical Diferential Equations

List B - Applications and Specialized Methods Courses:

• •	•	
ATOC 512	(3)	Atmospheric and Oceanic Dynamics
ATOC 513	(3)	Waves and Stability
ATOC 515	(3)	Turbulence inAtmosphere and Oceans
CIVE 572	(3)	Computational Hydraulics
CIVE 603	(4)	Structural Dynamics
COMP 557	(3)	Fundamentals of Computer Graphics
COMP 558	(3)	Fundamentals of Computerision
COMP 567	(3)	Discrete Optimization 2
COMP 621	(4)	ProgramAnalysis and Transformations
COMP 642	(4)	Numerical Estimation Methods
COMP 767	(4)	AdvancedTopics:Applications 2
ECSE 507	(3)	Optimization and Optimal Control
ECSE 532	(3)	Computer Graphics
ECSE 547	(3)	Finite Elements in Electrical Engineering
ECSE 549	(3)	Expert Systems in Electrical Design
MATH 555	(4)	Fluid Dynamics
MATH 560	(4)	Optimization
MATH 761	(4)	Topics inApplied Mathematics 1
MECH 533	(3)	SubsonicAerodynamics
MECH 537	(3)	High-SpeedAerodynamics
MECH 538	(3)	UnsteadyAerodynamics
MECH 539	(3)	ComputationaAerodynamics
MECH 541	(3)	Kinematic Synthesis
MECH 572	(3)	Introduction to Robotics
MECH 573	(3)	Mechanics of Robotic Systems
MECH 576	(3)	Geometry in Mechanics
MECH 577	(3)	Optimum Design
MECH 610	(4)	Fundamentals of Fluid Dynamics
MECH 620	(4)	Advanced Computation Alerodynamics
MECH 632	(4)	Theory of Elasticity
MECH 642	(4)	Advanced Dynamics
MECH 650	(4)	Fundamentals of Hearansfer
MECH 654	(4)	Compt. Fluid Flow and HeatTransfer

11.7.8 Master of Science (M.Sc.); Mathematics and Statistics (Non-Thesis) (45 credits)

Research Project (16 credits)

MATH 640	(8)	Project 1	
MATH 641	(8)	Project 2	

Complementary Courses (29 credits)

At least eight approved graduate courses, at the 500, 600, or 7000, lef 3 or more credits each.

11.7.9 Doctor of Philosophy (Ph.D.); Mathematics and Statistics

Thesis

A thesis for the doctoral **ge**ee must constitute original scholarship and must be a distinct **cotion** knowledge. It must sho familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizer results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates advices knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses

MATH 700	(0)	Ph.D. Preliminary Examinational A
MATH 701	(0)	Ph.D. Preliminary Examinational B

Complementary Courses

Twelve approved graduate courses, at the 500, 600, or 7000, lef 3 or more credits each.

11.7.10 Doctor of Philosophy (Ph.D.); Mathematics and Statistics Bioinf ormatics

Thesis

A thesis for the doctoral **ge**ee must constitute original scholarship and must be a distinct **cobiomilio** knowledge. It must show familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizor results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates advices knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars and for publication in the public domain.

Required Courses (3 credits)

COMP 616D1	(1.5)	Bioinformatics Seminar
COMP 616D2	(1.5)	Bioinformatics Seminar
MATH 700	(0)	Ph.D. Preliminary Examinational A
MATH 701	(0)	Ph.D. Preliminary Examinational B

Complementary Courses (6 credits)

(3-6 credits)

The twelve one-semester complementary courses for the PhgDecdenust include at leastdwfrom the list below, unless a student has completed the M.Sc.-level option in Bioinformatics, in which case only one course from the listwore lost be chosen:

BINF 621	(3)	Bioinformatics: Molecular Biology
BMDE 652	(3)	Bioinformatics: Proteomics
BTEC 555	(3)	Structural Bioinformatics
COMP 618	(3)	Bioinformatics: Functional Genomics
PHGY 603	(3)	Systems Biology and Biophsics

11.8 Physics

11.8.1 Location

Department of Pyrsics Ernest Rutherford Rysics Building 3600 University Street Montreal, QC H3A 2T8 Canada

Telephone: 514-398-6485 (Graduate Information)

Fax: 514-398-8434

Email: graduatephysics@mcgill.ca Website:wwwphysics.mcgill.ca

11.8.2 About Physics

The Department of Pysics currently has an culty of approximately 40 members, including small holders of Canada Research Chairs and most prestigious named Chairs additionally, we host an impresse number of postdoctoral fewls and research associates and run one of the strain most vibrant graduate programs in NoAmerica. The graduate student enrolment is currently approximately 150.

Faculty members in the Department of Silcs are recognized internationally for the icellence. Our members where ceved national and international prizes and fellowships including the Prix Du Quebe Steacie Prize, Sloan Fellowships, and 1 0 PhAm 409 469.522 Tm 56 international prizes and 1 members where the international prizes and 1 members where the international prizes are recognized internationally for the international prizes and 1 members where the international prizes are recognized internationally for the international prizes and 1 members where the international prizes are recognized internationally for the international prizes and 1 members where the international prizes are recognized internationally for the international prizes are recognized international prizes and 1 members where the international prizes are recognized internationally for the international prizes and 1 members where the international prizes are recognized international prizes and 1 members where the international prizes are recognized international prizes and 1 members where the international prizes are recognized international prizes and 1 members where the international prizes are recognized international prizes and 1 members where the international prizes are recognized international prize

High-enegy particle astropyrsics: ground-basedagnma-ray astronomy using thewrige commissioned/ERITAS telescope array and vote opment of the next-generation detector

Students at the M.Sc. and Ph.Dudls are dered a strong program of research in a challenging and rapidlyncidig eld. Short term master's projects are based mainly on instrumentation or data analysis conducted on campus, while Ph.D. reseavolvenary intended stay at one of theorids major research laboratories.

Nuclear Physics

Theoretical: Current research programs include transport equations vipridme aollisions at intermediate engry nuclear equation of state from lapsion collisions; fragmentation at intermediate engry nuclear equation of state from lapsion collisions; fragmentation at intermediate engry nuclear equation of state from lapsion collisions; fragmentation at intermediate engry nuclear equation of state from lapsion collisions.

Normal requirement is a B.Sc. in Paics or equialent, with high standing.

Ph.D.

Normal requirement is an M.Sc. in yetics or equialent. Candidates in good Standing mayeritate option of transferring into this program from the M.Sc. program after one year

11.8.3.2 Application Procedures

McGill s online application form for graduate program candidatesailable atwwwmcgill.ca/gadapplicants/apply

See section 6.3Application Pocedues (for All Admissions Starting Summer 2010) detailed application procedures.

Financial Assistance

Financial assistance will befered to students in the form of arbary and teaching and research assistantship students, nancial support will be ofered at the time of acceptance refer and led out on rejistration day

11.8.3.3 Dates for Guaranteed Consideration

Canadian	International	Special/Exchange/lisiting
Fall: Jan. 15	Fall: Jan. 15	Fall: Jan. 15
Winter: Sept. 15	Winter: Sept. 15	Winter: Sept. 15
Summer: N/A	Summer: N/A	Summer: N/A

Revision, October 2012. End of revision.

11.8.4 Physics Faculty

Chair

C. Gale

Director of Graduate Studies

S. Jeon

Emeritus Professors

S. Das Gupta; B.Sc., M.Sc.(Calc.), Ph.D.(McMMacdonald Emeritus Refessor of Physics

N.B. DeTakacsy; B.Sc., M.Sc.(Mon)tr Ph.D.(McG.)

C.S. Lam; B.Sc.(McG.), Ph.D.(MIT)

 $\hbox{M.P. Langleben; B.Sc., M.Sc., Ph.D. (McG.)} \hbox{\it RFS.C.}$

S.K. Mark; B.Sc., M.Sc., Ph.D.(McG.Macdonald Emeritus Refessor of Physics

D.G. Stairs; B.Sc., M.Sc.(Qu.), Ph.D.(Har(Macdonald Emeritus Perfessor of Physics

J.O. Strom-Olsen; B.A., M.S., Ph.D.(Camb

M.J. Zuckermann; M.A., D.Phil.(Oxf.), IR.S.C.

Post-Retirement Professors

J. Barrette; M.Sc., Ph.D.(Mon)tr

J.E. Crawford; B.A., M.A.(Tor.), Ph.D.(McG.)

R. Harris; B.A.(Oxf.), Ph.D.(Sus.)

J.K.P

Lecturers

Z. Altounian, F. Buchinger

Associate Members

- M. Chacron Physiology)
- K. Gehring Biochemistry)
- P. Hayden Computer Science
- M. Mackey (Physiology)
- Z. Mi (Electrical and Computer Engineering
- J. NadeauBiomedical Engineering
- E. Podgorsak Medical Physic)s
- D. ws8 Tm (Bioc)Tjq(y)
- D. wonis(Bioc)Tj ()
- J. Seuntjens Medical Physic)s
- T. Szłopek (Electrical and Computer Engineeri)ng
- F. Verhagen (Medical Physic)s

Candidates must successfully complete 8 wcredit graduate courses at the 600 eller above; one of these courses should be in the candidate's area of specialization. If the candidate completed by more courses at the 600 eleas part of the McGill Pysics M.Sc. program, then one of these courses may be used as a substitute for one of the required courses. In all cases, candidates must also pass the Ph.D. xaetimatiary (PHYS 700).

PHYS 700

(0)

Preliminary Ph.D. Examination

11.9 Psychology

11.9.1 Location

Stewart Biological Sciences Building, RooM/8/33A 1205 Dr Pen eldAvenue Montreal, QC H3A 1B1 Canada

Telephone: 514-398-6124/514-398-6100

Fax: 514-398-4896

Email: gradsec@go.psyb.mcgill.ca Website:wwwpsyb.mcgill.ca

11.9.2 About Psychology

The aim of the Experimental program is to vides students with an vinonment in which the are free to deelop skills and expertise that will serve during a professional career of teaching and research as a psychologist. Woodurand other requirements are at a minimum. Success in the program depends on the student's ability to ganize unscheduled time for self education. Continuous viewent in research planning and ecution is considered view important component of the student's avitties. Students are normally receted to do both masterand doctoral study

M.A. and M.Sc. degrees may be wearded in Experimental Psychologoput only as a stage students undeport formal evaluation in the Ph.D. program.

The Clinical program adheres to the scientist practitioner model and as such is designed to train students for caregity ine arching or clinical research, and for service careers (whing with children or adults in hospital, clinical, or educational settings). Most of our clinical graduates combine service and research roles While there are necessarily nyarmore course requirements than in the Experimental program, the emphasis is is nare search training. There is no master program in Clinical Psychology; students are secreted to complete the full program leading to a doctogradue.

Research interests of members of the Psychology Department include animal learningubalnaeuroscience, clinical, child votelopment, cognitive science, health psychologysychology of language, perception, quantitatisychologysocial psychologyand personality psychology

Facilities for advanced research in aniety of elds are vailable within the Department itself. In addition, arrangements with the Departments of Psychology at the Montreal Neurological Institute and Hospitlan Memorial Institute, Douglas Hospital, which General Hospital, Montreal Children's Hospital, and the Montreal General Hospital, to permit graduate students to use destator in a hospital setting.

For full information about all programs and nancial aid, and for application forms, contact the Graduate Program Condeipartoment of Psychology

Ph.D. Option in LanguageAcquisition (LAP)

Information about this option is ailable from the Department and atwwpsych.mcgill.ca/lap.html

Ph.D. Option in Psychosocial Oncology (PSO)

A cross-discipliue

section 11.9.7Doctor of Philosophy (Ph.D.); Psyhology Language Acquisition

This unique interdisciplinary program focuses on the scientipologration of language acquisition by fedifient kinds of learners involves. Students in the Language acquisition Program are introduced to theoretical and methodological issues on language acquisition from the expect cognitive neuroscience, theoretical linguistics, psycholinguistics, education, communication sciences and disorders, and neuropsychology

section 11.9.8Doctor of Philosophy (Ph.D.); Psymology Psychosocial Oncology

The Department of Oncologin conjunction with the Ingram School of Nursing, the Department of Psychology and the School of Nursing and in developed the cross-disciplinary Psychosocial Oncology Option (PSIDAG) option is open to doctoral students in the Ingram School of Nursing and in the Department of Psychology who are interested in broadening the likelings of psychosocial issues in oncology

11.9.3 Psychology Admission Requirements and Application Procedures

Revision, October 2012. Start of revision.

11.9.3.1 Admission Requirements

Admission to the graduate program depends on valuation of students' research interests and their aptitude for original ution tibo knowledge and, if applicable, for professional contribons in the applied eld.

11.9.4 Psychology Faculty

Associate Pofessors

- E.S. Balaban; B.A.(Mich. St.), Ph.D.(Roofkeller)
- H. Hwang; B.A.(Chung-Ang), Ph.D.(McG.)
- B. Knauper; Drphil.(German, Mannheim)
- M.J. Mendelson; B.Sc.(McG.A.M., Ph.D.(Harv)
- K. Nader; B.Sc., Ph.D.(7).)
- G. O'Driscoll; B.A.(Welles.), Ph.D.(Harly (William Dawson Strolar)
- K. Onishi; B.A.(Brown), M.A., Ph.D.(III.)
- M. Pompeiana; M.D., Ph.D.(Pisa)
- Z. Rosbeger; B.Sc.(McG.), M.A., Ph.D.(C'dialPart-time)
- D. Titone; B.A.(NYU), M.A., Ph.D.(SUNYBinghamton)

Assistant Professors

- J. Bartz; B.A.(C'dia), M.A., Ph.D.(McG.)
- I. Bradley; B.Sc., M.Sc.(Tor.), Ph.D.(Wat.) (Part-time)
- Y. Chudasama; B.Sc., Ph.D.(Caf)dif
- M. Dirks; B.A.(McM.), M.S., M.Phil., Ph.D.(Me)
- J. Ristic; B.A., M.A., Ph.D.(BrCol.)
- H.-T. Yu; B.S. (Taiwan), M.S., M.A., Ph.D. (III.-Urbana-Champaign)

Lecturers

R. Amsel, P. Carvajal

Associate Members

AnesthesiaT. Coderre

Douglas Hospital Reseatr Cente: S. King, J. Pruessnerl. Steiger

Jewish Geneal Hospital P. Zelkowitz

McGill Vision Reseath Cente: C. Baler, R. Hess, A.A. Kingdom, K. Mullen

Montreal Neuological Institute J.Armony, L.K. Fellows, D. Guitton, M. Jones-Gotman, M. Lepage, B. MilliterRuthaze, W. Sossin, V. Sziklas, R. Zatorre

Schulich School of Music S. MacAdams

Psychiatry: D. Dunkley, M. Leyton, A. Raz

Ingram School of Nusing Psychiatry: F. Abbott

Adjunct Professors

M. Bruck, S. Burstein, .PDelisle, P.Gregoire, D. Sookman, .PZelazo

Af liate Member

L. Kowski (Medicine)

Part-Time Appointments

J. Bernstein, E. & Hey, O. Hardt, J. LeGallais, J. MacDoally V. Migues, Z. Pleszweski

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PSYC 690	(15)	Masters Research 1
PSYC 699	(12)	Masters Research 2
Required Courses (18 credits)		

PSYC 601 (6) Master's Comprehenssi

(3) Advanced Statistics 1

EDSL 711	(2)	LanguageAcquisition Issues 3
LING 710	(2)	LanguageAcquisition Issues 2
PSYC 701	(6)	Doctoral Comprehense Examination
PSYC 709	(2)	LanguageAcquisition Issues 1
SCSD 712	(2)	LanguageAcquisition Issues 4

One graduate seminar each term dulflegr 2 and/ear 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily requirexamine ation in a foreign language where, all students planning on practising clinical psychology in the project of Quebec will be manifed based on their prociety in French before being admitted to the professional association.

Note: If the student has a non-McGill master'gree then the following courses are also required:

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	PsychologyTheory
PSYC 660D2	(3)	PsychologyTheory

Complementary Courses (9 credits)

One graduate-leel course in statistics, such as:

EDPE 676	(3)	Intermediate Statistics
EDPE 682	(3)	Univariate/MultivariateAnalysis
PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2

Students who have taken an equivalent course in statistics, or are currently taking anvaluant course as part of their Ph.D. program requirements, will be deemed to have satis ed this requirement for the Languanguausition Option.

Two courses selected from the following list, at least one course must be outside the Department of Psychology:

EDSL 620	(3)	Critical Issues in Second Language Education
EDSL 623	(3)	Second Language Learning
EDSL 624	(3)	Educational Sociolinguistics
EDSL 627	(3)	Classroom-Centred Second Language Research
EDSL 629	(3)	Second Languagessessment
EDSL 632	(3)	Second Language Litera Development
EDSL 664	(3)	Second Language Research Methods
LING 555	(3)	LanguageAcquisition 2
LING 590	(3)	LanguageAcquisition and Breakdon
LING 651	(3)	Topics inAcquisition of Phonology
LING 655	(3)	Theory of L2Acquisition
PSYC 734	(3)	Developmental Psychology and Language
PSYC 736	(3)	Developmental Psychology and Language
SCSD 619	(3)	Phonological Deelopment
SCSD 632	(3)	Phonological Disorders: Children
SCSD 633	(3)	Language Deelopment

SCSD 637	(3)	Developmental Language Disorders 1
SCSD 643	(3)	Developmental Language Disorders 2
SCSD 652	(3)	Advanced Research Seminar 1
SCSD 653	(3)	Advanced Research Seminar 2

11.9.8 Doctor of Philosophy (Ph.D.); Psychology Psyc hosocial Oncology

The Ph.D. thesis topic must be germane to psychosocial oncology and support PSO coordinating committee.

Thesis

A thesis for the doctoral **ge**ee must constitute original scholarship and must be a distinct **cobiomilbo** knowledge. It must show familiarity with previous work in the eld and must demonstrate ability to plan and carry out reseagenizer results, and defend the approach and conclusions in a scholarly manner. The research presented must meet current standards of the discipline; as well, the thesis must clearly demonstrates dances knowledge in the eld. Finally, the thesis must be written in compliance with norms for academic and schoolars, and for publication in the public domain.

Required Courses (12 credits)

NUR2 705	(3)	Palliative Care
NUR2 783	(3)	Psychosocial Oncology Research
PSYC 701	(6)	Doctoral Comprehense Examination

One graduate seminar each term dulfegr 2 and ear 3 chosen from seminar courses PSYC 710 to PSYC 758.

Note: The Department of Psychology does not ordinarily requirexamination in a foreign language; where, all students planning on practising clinical psychology in the profice of Quebec will be manife based on their pro cieyn in French before being admitted to the professional association.

Note: If the student has a non-McGill master's then the winto courses are also required:

PSYC 650	(3)	Advanced Statistics 1
PSYC 651	(3)	Advanced Statistics 2
PSYC 660D1	(3)	PsychologyTheory
PSYC 660D2	(3)	PsychologyTheory

Complementary Course (3 credits)

One of the following courses:

PSYC 507	(3)	Emotions, Stress, and Illness
PSYC 753	(3)	Health Psychology Seminar 1
SWRK 609	(3)	Understanding Social Care
SWRK 668	(3)	Living with Illness, Loss and Bereament

11.10 Redpath Museum

11.10.1 Location

Redpath Museum 859 Sherbrook Street/Vest Montreal, QC H3A 0C4 Canada Telephone: 514-398-4086 Fax: 514-398-3185

Website:wwwmcgill.ca/redpath

11.10.2 About Redpath Museum

The Redpath Museum is a unique interdisciplinary unit within the Fry of Science of

Adjunct Professors

Robert Holmes, Henry M. Reiswig, Michale/bloch

