56 Otolaryngology

Department of Otolaryngology
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Chair — M.D. Schloss

56.1 Staff

Emeritus Professor
J.D. Baxter; M.D., C.M., M.Sc.(McG.), F.R.C.S.(C)

Professors
S. Frenkiel; B.Sc., M.D., C.M.(McG.), F.R.C.S.(C)
H.L. Galiana; B.Eng., M.Eng., Ph.D.(McG.)
A. Katsarkas; M.D.(Thess.), M.Sc.(Otol.), F.R.C.S.(C)
M.D. Schloss; M.D.(Br.Col.), F.R.C.S.(C)
T.L. Tewfik; M.D.(Alex.), F.R.C.S.(C)

Associate Professors
M.J. Black; M.D., C.M.(McG.), F.R.C.S.(C)
N. Fanous; M.B., BCH.(Cairo), F.R.C.S.(C)
W.R.J. Funnell; B.Eng., M.Eng., Ph.D.(McG.)
J. Manoukian; M.B., Ch.B.(Alex.), F.R.C.S.(C)
M. Mendelsohn; B.Sc., M.D., C.M.(McG.), F.R.C.S.(C)
W.H. Novick; M.D., C.M.(Queen's), F.R.C.S.(C)
B. Segal; B.Sc., B.Eng., M.Eng., Ph.D.(McG.)
R.S. Shapiro; M.D., C.M.(McG.), F.R.C.S.(C)
G.S. Shenouda; M.D.(Cairo), F.R.C.P.(C)

Assistant Professors
F. Chagnon; M.D.C.M.(McG.), F.R.C.S.(C)
I. Fried; M.D.(Dal.), F.R.C.S.(C)
M. Hier; M.D.(McG.), F.R.C.S.(C)
K. Kost; M.D., C.M.(McG.), F.R.C.S.(C)
R. Lafleur; M.D.(Ott.), F.R.C.S.(C)
M.-L. Lessard; M.D.(Laval), F.R.C.S.(C)
J. Rappaport; M.D.(Dal.), F.R.C.S.(C)
H. Remy; M.D.(Montr.), F.R.C.S.(C)
L. Rochon; M.D.(Sher.), F.R.C.P.(C)
N. Sadeghi; M.D.(McG.), M.Sc.(Otol.), F.R.C.S.(C)
G. Sejean; M.D.(Beirut), F.R.C.S.(C)
R. Sweet; M.D., C.M.(McG.)
L. Tarantino; M.D.(Naples), F.R.C.S.(C)
A.G. Zeitouni; M.D.(Sher.), M.Sc.(Otol.), F.R.C.S.(C)

Lecturers
A. Finesilver; M.D.(McG.), F.R.C.S.(C)
J. Rothstein; M.D.(McG.), F.R.C.S.(C)

Adjunct Professors
M. Desrosiers; M.D.(Montr.), F.R.C.S.(C)
J.-J. Dufour; M.D.(Laval), F.R.C.S.(C)

56.2 Program Offered

The Master of Science degree in Otolaryngology trains otolaryngologists for clinical or basic-science research in Otolaryngology.

56.3 Admission Requirements

Admission to the M.Sc. program requires acceptance by a research supervisor, and the proposed program must be approved by the Departmental Research Committee.

All applicants must be otolaryngologists, or they should be currently enrolled in a residency program leading to certification in Otolaryngology.

56.4 Application Procedures

Applications require the following documentation:

1. completed application form and personal statement form;

540-602 (3) Physiology, Histopathology and Clinical Otolaryngology 1
540-612 (3) Physiology, Histopathology and Clinical Otolaryngology 2
540-603 (3) Advanced Scientific Principles of Otolaryngology 1
540-613 (3) Advanced Scientific Principles of Otolaryngology 2

513-607 (3) Principles of Inferential Statistics in Medicine or equivalent

540-690 (3) Thesis 1
540-691 (3) Thesis 2
540-692 (6) Thesis 3
540-693 (6) Thesis 4
540-694 (12) Thesis 5

HESIS 5. (12) Independent study in connection with the Master's thesis. Presentation of results at a departmental seminar,

or at a scientific meeting. Completion and final acceptance of the M.Sc. Thesis by the Department and Faculty of Graduate Studies.

513-607A,C,L PRINCIPLES OF INFERENTIAL STATISTICS IN MEDICINE. (3) Introduction to basic principles of statistical inference.

considered by the academic unit to be preparatory to the graduate program.

Letters of Recommendation – Two letters of recommendation on letterhead or bearing the university seal and with original signatures from two instructors familiar with the applicant's work, preferably in the applicant's area of specialization, are required. It is the applicant's responsibility to arrange for these letters to be sent.

Competency in English – Non-Canadian applicants whose mother tongue is not English and who have not completed an undergraduate degree using the English language are required to submit documented proof of competency in oral and written English, by appropriate exams, e.g. TOEFL (minimum score 550 on the paper-based test (213 on the computer-based test) or IELTS (minimum overall band 6.5). The MCHE is not considered equivalent. Results must be submitted as part of the application. The University code is 0935 (McGill University, Montreal); department code is 31 (graduate schools), Biological Sciences - Agriculture.

Graduate Record Exam (GRE) – The GRE is not required, but it is highly recommended.

Financial aid is very limited and highly competitive. It is suggested that students give serious consideration to their financial planning before submitting an application.

Acceptance to all programs depends on a staff member agreeing to serve as the student's supervisor and the student obtaining financial support. Normally, a student will not be accepted unless adequate financial support can be provided by the student and/or the student's supervisor. Academic units cannot guarantee financial support via teaching assistantships or other funds.

Qualifying Students – Some applicants whose academic degrees and standing entitle them to serious consideration for

among biological processes, biotic and abiotic factors, and life history strategies. Topics include population dynamics, optimization strategies, predation, habitat selection, risks and decision making, and social behavior. Application of problem-solving approach to wildlife ecology through individual and group work.

391-400B EUKARYOTIC CELLS AND VIRUSES. (3) (4 lectures per week) (Prerequisite: 356-204A) The basic principles of molecular biology and the underlying molecular basis for various methodologies in molecular biology are covered. The molecular genetic basis for viral infections and tumorigenesis will be covered as examples of the use of molecular genetic approaches to address biological problems.

391-410B ENVIRONMENT AND INFECTION. (3) (2 lectures per week) (Prerequisites: 177-111A, 344-120A, or equivalents) Infectious pathogens of humans and animals and their impact on the global environment are considered. The central tenet is that infectious pathogens are environmental risk factors. The course considers their impact on the human condition and juxtaposes the impact of control and treatment measures and environmental change.

391-438A IMMUNOLOGY. (3) (2 lectures per week) (Prerequisite: 344-202B or permission of instructor.) An in-depth analysis of the principles of cellular and molecular immunology. The emphasis of the course is on host defense against infection and on diseases caused by abnormal immune responses.

Courses for Higher Degrees

202-505A SELECTED TOPICS IN BIOTECHNOLOGY. (3) (one 3-hour lecture per week) Current methods used in the biotechnology industry and research, as applied to medical, biological, environmental, agricultural and food sciences aspects of biotechnology, will be described and discussed. This multidisciplinary course will include lectures from outstanding biotechonology researchers from industry and McGill professors, and visits to leading centres of biotechnology in the region.

391-600D THESIS PROPOSAL FOR M.SC. CANDIDATES. (4)

391-606A,B PARASITOLOGY SEMINAR. (2) A seminar series in which students present seminars covering topics in parasitology, in areas relevant to their research interests. Students register for the course in their second term of residency. Attendance and participation are compulsory for M.Sc. and Ph.D. students.

391-607A,B PARASITOLOGY RESEARCH SEMINAR. (2) This is a required course for M.Sc. and Ph.D. students. A seminar course in which students registered at the Institute of Parasitology present seminars on the results of their thesis research. Students register for the course in the final term prior to thesis submission.

391-635A,B CELL BIOLOGY AND INFECTION. (3) (Prerequisite: students with some background in molecular biology.) Research articles will be the primary source of information. This course will cover new principles in cell biology. In particular, the mechanisms by which gene expression is regulated through signal transduction pathways initiated at the cell surface will be presented.

391-655A,B HOST-PARASITE INTERACTIONS. (3) Lectures, tutorials and laboratory demonstrations of the principal factors which affect levels of parasite infection and treatment of infections in humans and animals. The integration and management of the host-parasite relationship in terms of transmission, population dynamics, environmental management, behaviour, immune responses, pathology, and pharmacology to decrease parasitic disease.

391-665A,B SPECIAL TOPICS IN PARASITOLOGY. (3) This course designation will be used for special courses that staff, or visiting professors, may wish to provide when student interest warrants. Examples might include a laboratory techniques course, a mathematical modelling course or a special pharmacology seminar series.

391-675A,B MEMBRANE PROTEINS IN HUMAN DISEASES. (3) (Prerequisite: 333-211A or equivalent.) The molecular mechanism of membrane proteins and their role in human diseases. Specific examples of how parasites and mammalian cells use these membrane proteins to manipulate their environment will be reviewed in detail.

391-687A,B THESIS RESEARCH I. (10)

391-688A,B THESIS RESEARCH II. (10)

391-689A,B THESIS RESEARCH III. (12)

391-700D THESIS PROPOSAL FOR PH.D. CANDIDATES.

391-710A,B PARASITOLOGY PH.D. SEMINAR I. (2)

391-711A,B PARASITOLOGY PH.D. SEMINAR II. (2) A seminar series in which students present seminars covering topics in parasitology in areas relevant to their reserach interests. Attendance and participation are compulsory.

▭ **394-501A/B BIOINFORMATICS.** (3) (2 lectures and 1 laboratory per week) This course introduces the application of computer software for analysis of biological sequence information. An emphasis is placed on the biological theory behind analytical techiques, the algorithms used and methods of developing a statistical framework for various types of analysis.

▭ **394-620A BIOTECHNOLOGY LABORATORY TECHNIQUES.** (3) (one 8-hour lab per week) Practical training in contemporary methods of molecular and cellular biology. Intended for students with background in molecular biology, biochemistry, or a related area, who are already familiar with theoretical principles of recombinant DNA technologies. Topics include: polymerase chain reaction (PCR), methods for gene cloning and mutagenesis, eukaryotic and prokaryotic gene expression systems, protein purification and methods of eukaryotic cell culture.

394-621A BIOTECHNOLOGY MANAGEMENT. (3) (one 3-hour lecture per week) Topics relevant to the management of research in industry are presented by experts working in industry. This course highlights the differences exisiting between research done in an academic environment and research done within industry.

394-691E,G BIOTECHNOLOGY PRACTICUM. (3) (Prerequisite: 394-620A/B) The cooperating employer and the instructor (or designate) will develop an individualized practicum experience program of at least 12 weeks duration for each student.

58 Pathology

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Email: mira.hoffmann@mcgill.ca
Website: http://www.mcgill.ca/pathology

Chair — C.C. Compton

Director of Graduate Program — E. Zorychta

58.1 Staff

Emeritus Professors
S. Moore; M.B., Ch.B.(Belf.), F.R.C.P.(C)
R.H. More; M.Sc.(McG.), M.D.(Tor.), F.R.C.P.(C)

Professors
M.N. Burnier Jr.; M.D., M.Sc., Ph.D.(Brazil)
C.C. Compton; B.A. M.D., Ph.D.(Harv.)
A.M.V. Duncan; B.Sc.(Queen's), Ph.D.(Edin.)
A. Ferenczy; B.A., B.Sc., M.D.(Montr.)
R. Fraser; B.Sc., M.D., C.M.(McG.), M.Sc.(Glas.), F.R.C.P.(C)
A. Fuks; B.Sc., M.D., C.M.(McG.)
Q.A. Hamid; M.D.(Mosul), Ph.D.(Lond.) *(James McGill Professor) (joint appt. with Medicine)*
R.P. Michel; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)
G. Prud'homme; B.Sc., M.D.(Ott.), F.R.C.P.(C)
J.B. Richardson; B.Sc., M.D., C.M., Ph.D.(McG.), F.R.C.P.(C)

Associate Professors
L. Alpert; M.D., Ph.D.(Tufts)
J. Arseneau; M.D.(Laval), F.R.C.P.(C)
M. Auger; M.D., C.M.(McG.), F.R.C.P.(C)
L. Bégin; M.D.(Sher.), F.R.C.P.(C)
M.L. Brisson; B.A.(Paris), B.Sc., M.D.(Montr.)
B. Case; B.Sc., M.D., C.M., M.Sc.(McG.), Dipl. Occ. Hyg., F.R.C.P.(C)
M.F. Chen; M.B., B.S.(Monash), F.R.C.P.(C)
J. Deschênes; M.D.(Laval), F.R.C.P.(C)
A. Giaid; D.V.M.S.(Baghdad), Ph.D.(Lond.)
R.H. Latt; D.V.M.(Guelph)
L.A. Oliva; M.D.(St. Domingue), F.R.C.P.(C)
R. Onerheim; M.D.(Alta.), F.R.C.P.(C)
L. Rochon; M.D.(Sher.), F.R.C.P.(C)
S. Tange; B.A., M.D.(Minn.)
M. Trudel; B.Sc., M.D.(Ott.), F.R.C.P.(C)
J. Viloria; M.D.(Philip.), F.R.C.P.(C)
K. Watters; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)
E.A. Zorychta; B.Sc.(St.F.X.), M.Sc., Ph.D.(McG.)

Assistant Professors
S. Albrecht; M.D.(Sher.), F.R.C.P.(C)
C. Bernard; M.D.(Sherb.)
P.J. Chauvin; M.Sc.(W.Ont.), D.D.S.(McG.)
S. Demczuk; B.Sc., M.Sc., Ph.D.(McG.)
J. Emond; B.A., M.Sc., M.D.(Montr.)
M.-C. Guiot; B.Sc., M.D.(Bordeaux)
F. Halwani; M.D.(Iran), Ph.D.(McG.), F.R.C.P.(C)
D. Lamoureux; M.D.(Sher.), F.R.C.P.(C)
E. Lamoureux; B.Sc., M.D.(Montr.), F.R.C.P.(C)
E. MacNamara; M.B., Ch.B.(Trinity), F.R.C.P.(C
A.T. Marcus; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)
V.A. Marcus; M.D., C.M.(McG.), F.R.C.P. (C)
J. Massé; M.D.(Sher.)
A.R. Mehio; M.D.(Leb.)
V.-H. Nguyen; M.D.(Montr.), F.R.C.P.(C)
D. Pilavdzic; M.D.(Zagreb), F.R.C.P.(C)
C. Pothel; M.D.(Haiti), F.R.C.P.(C)
I. Roy; B.Sc., M.D., C.M.(McG.), F.R.C.P.(C)
K. Sircar; M.D., C.M.(McG.), F.R.C.P. (C)
G.J. Snipes Jr.; B.Sc.(Emory), M.D., Ph.D.(Vanderbilt) *(joint appt. with Neurology & Neurosurgery)*
H. Srolovitz; B.Sc.(Pitt.), M.D.(Basle)
J. St. Cyr; M.D., C.M.(McG.), F.R.C.P.(C)

Adjunct Professors
T. Seemayer, University of Nebraska Medical Centre
P.D. Winocour, BioChem Therapeutic Inc.

58.2 Programs Offered

M.Sc. and Ph.D. degrees in Pathology.

The Pathology Department offers research training in a wide variety of areas such as atherosclerosis, immunology and transplantation, neoplasia, cell biology, pulmonary vascular and airways disease, pulmonary edema, neurodegenerative disorders, and smooth muscle pathophysiology.

Modern techniques and equipment include light, fluorescence and electron microscopy (both transmission and scanning), cell culture, advanced immunological, pharmacological, biochemical and physiological techniques, as well as morphometry and computers.

58.3 Admission Requirements

Applicants must have a B.Sc. or the equivalent degree with an extensive background in the physical and biological sciences. An academic record equivalent to or better than a CGPA of 3.2 out of 4 at McGill is required for at least the two final full-time years of undergraduate training with a minimum CGPA of 3.0 overall.

Non-Canadian students may be required to take the GRE and TOEFL examinations in order to properly evaluate their suitability. Students are normally accepted into the M.Sc. program, and those candidates showing exceptional ability may be permitted to transfer into the Ph.D. program after one year of training.

Applicants who already possess an additional degree (M.Sc., M.D.) and have some research experience may be allowed to register in the Ph.D. program directly.

Prospective students are encouraged to contact the Teaching Office, Department of Pathology, for application forms and a departmental brochure containing the research interests of the academic staff.

58.4 Application Procedures

Applications will be considered upon receipt of:
1. application;
2. transcripts;
3. letters of reference;
4. $60 application fee;
5. test results (GRE, TOEFL).

All information is to be submitted directly to the Pathology Teaching Office.

All applications will be evaluated by the Graduate Students Committee. Candidates found suitable must then be accepted by a research director, and adequate funding must be obtained for both personal support and research expenses.

58.5 Program Requirements

All students must take Pathology 546-300B plus a course in statistics if they have not completed these requirements before admission.

Candidates with insufficient background in one of the biomedical sciences will be required to take specific courses to remedy the deficiency. These and additional courses which are relevant to the student's area of research will be chosen in consultation with the research director and Graduate Students Committee.

M.Sc. Program Requirements

The program consists of 45 credits, 30 credits obtained by laboratory work and submission of a thesis (546-690, 546-691, 546-692), with the remaining 15 course credits to be distributed as follows: 546-613 or 546-614, 546-620, 546-622, plus any two graduate level courses offered by the Department. A graduate course in another department may be substituted for one of the Pathology graduate courses upon approval by the research director and Graduate Students Committee.

Ph.D. Program Requirements

Ph.D. candidates are required to complete courses 546-613, 546-614, 546-620, 546-622, 546-701, plus any three graduate level courses offered by the Department, and any additional courses considered necessary by the research director or the Graduate Students Committee.

Candidates will be evaluated primarily on their ability to conduct independent research and submit a thesis, which must be defended orally.

58.6 Courses

NOTE: All undergraduate courses administered by the Faculties of Arts and of Science (courses at the 100- to 500-level) have limited enrolment.

The names of course instructors are listed on the Course Timetable available on ***info*McGill** via the Web http://www.mcgill.ca/students/courses/.

The course credit weight is given in parentheses after the title.

● Denotes courses not offered in 2001-02.

Advanced Undergraduate

546-300B HUMAN DISEASE. (3) Integrated study of human disease, with emphasis on the major disorders prevalent in North America. Cell injury, inflammation, healing, infection, immune responses, lifestyle and aging, neoplasia, disorders of organ systems.

Graduate Courses
The following courses are given in a variable sequence depending
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4. Two confidential letters of recommendation from professors or

Professors
M.A. Bunge; Ph.D.(LaPlata), F.R.S.C. *(John Frothingham Professor of Logic and Metaphysics)*
G. DiGiovanni; B.A., M.A., S.T.B., Ph.D.(Tor.)
S. McCall; B.A.(McG.), B.Phil., D.Phil.(Oxon.)

Associate Professors
R.P. Buckley; Ph.D.(Louvain)
D. Davies; B.A. (Oxon.), M.A.(Manit.),Ph.D.(W.Ont.)
M. Deslauriers; B.A.(McG.), M.A., Ph.D.(Tor.)
M. Hallett; B.Sc., Ph.D.(Lond.)
A. Laywine; B.A.(Ott.), M.A.(Montr.), Ph.D.(Chic.)
E. Lewis; B.A.(C'nell), Ph.D.(Ill. at Chic.)
J. McGilvray; B.A.(Carleton College), Ph.D.(Yale)
S. Menn; M.A., Ph.D.(Chic.), M.A., Ph.D.(Johns H.)
S. Stroud; A.B.(Harv.), Ph.D.(Prin.)

Assistant Professor
E. Carson; M.A.(McG.), Ph.D.(Harv.)

Adjunct Professors
S. Davis; (Simon Fraser)
I. Gold; (Monash)
J. Tully; (University of Victoria)

Auxiliary Professor
K. Arvanitakis; B.Sc, M.A., M.D., C.M.(McG.), D.Psy., C.I.P.C., sq., M.A. aictoria)

Students who do not receive a positive recommendation but who satisfy Graduate Faculty requirements (no courses below a B-minus and completion of 45 credits) will be recommended to the Graduate Faculty by the Department to transfer from the Ph.D. program to the M.A. program.

M.A. specialization in Bioethics: The curriculum is composed of required courses (for 6 credits) offered in the Biomedical Ethics Unit, bioethics courses (3credit minimum) offered by Philosophy and any graduate courses required or accepted by Philosophy for the granting of a Master's degree, for a total of 18 to 21 credits. A minimum of 45 credits is required including the thesis. For further information refer to the Bioethics entry.

60.6 Courses for Higher Degrees

NOTE: All undergraduate courses administered by the Faculties

107-696A GRADUATE SEMINAR I. (1) Attendance at graduate students' presentations.

107-697B GRADUATE SEMINAR II. (1) Attendance at graduate students' presentations.

107-698A GRADUATE SEMINAR III. (1) Presentation of the thesis and attendance at other thesis presentations.

107-705A GUIDED RESEARCH IN ETHICS. (3)

107-706B GUIDED RESEARCH IN ETHICS. (3)

107-710A GUIDED RESEARCH IN LOGIC. (3)

107-711B GUIDED RESEARCH IN LOGIC. (3)

107-720A GUIDED RESEARCH IN PHILOSOPHY OF SCIENCE. (3)

107-721B GUIDED RESEARCH IN PHILOSOPHY OF SCIENCE. (3)

107-730A GUIDED RESEARCH IN PHILOSOPHY OF RELIGION. (3)

107-731B GUIDED RESEARCH IN PHILOSOPHY OF RELIGION. (3)

107-740A GUIDED RESEARCH IN ANCIENT PHILOSOPHY. (3)

107-741B GUIDED RESEARCH IN ANCIENT PHILOSOPHY. (3)

107-750A GUIDED RESEARCH IN MEDIEVAL PHILOSOPHY. (3)

107-751B GUIDED RESEARCH IN MEDIEVAL PHILOSOPHY. (3)

107-760A GUIDED RESEARCH IN HISTORY OF PHILOSOPHY. (3)

107-761B GUIDED RESEARCH IN HISTORY OF PHILOSOPHY. (3)

107-770A GUIDED RESEARCH IN PHILOSOPHY OF POLITICS. (3)

107-771B GUIDED RESEARCH IN PHILOSOPHY OF POLITICS. (3)

107-780A GUIDED RESEARCH IN EPISTEMOLOGY AND METAPHYSICS. (3)

107-781B GUIDED RESEARCH IN EPISTEMOLOGY AND METAPHYSICS

2. Evidence of a high academic achievement equivalent to a B^+ standing, or a McGill CGPA of 3.3 (75-79%) is required.
3. Proof of proficiency in English.
4. GRE Test with a minimum score of 600 in each category. The GRE Test is mandatory for the following applicants:
   those who do not have a B.Sc. or equivalent from a Canadian University;
   those who have been out of university for 5 years or more;

582-602A,B EDUCATIONAL METHODOLOGY. (3) (Course equivalent: 449-689 Teaching and Learning.) Process of learning, methods of communication and teaching strategies for classrooms and clinical settings.

582-603A,B,C DIRECTED PRACTICUM. (3) A tutorial with directed practical experience in a clinical setting related to the student's clinical specialization, including curriculum development, and emphasizing current thought in rehabilitation.

● **582-604A CURRENT TOPICS IN PEDIATRICS.** (3) (Prerequisite: 582-233A, or permission from the instructors.)

582-610A,B RESEARCH METHODOLOGY. (3) (Prerequisite: 204-305B or 513-607A, or 416-675A and 416-676B, or equivalent.) An advanced lecture and seminar course. The philosophy of scientific inquiry, principles of research design, and application of statistical techniques are discussed with special consideration given to research studies in health care and rehabilitation.

582-614A,B SELECTED TOPICS IN REHABILITATION SCIENCE. (3) A weekly lecture and seminar course taught by staff, designed to provide an overview of current research issues in rehabilitation.

582-616D SEMINARS IN REHABILITATION SCIENCE. (1) A weekly seminar course given by staff and invited speakers in different areas of research related to rehabilitation science. Students are expected to participate by reading pertinent literature prior to seminars and asking questions at each seminar. Attendance is compulsory, and the course is graded pass/fail based on participation.

582-618A,B,C TOPICS IN REHABILITATION. (3) This is a directed reading course on a topic in rehabilitation science. The student will acquire extensive knowledge in the topic of interest and understand the strengths and limitations of the current body of work in the area.

582-620A,B MEASUREMENT IN REHABILITATION I. (3) (Prerequisite: 582-220B and permission from the instructor.) Theoretical and practical basis for utilization of electronic equipment for quantitative measurement in rehabilitation research. Ambulatory assistive devices, electronic plates and instrumentation to assess normal and pathological human movement will be used to demonstrate the application of theory and techniques for quantitative analysis of human performance. Recording, reduction and analysis of electromyographic, kinetic and kinematic data included.

● **582-622A,B PATHOKINESIOLOGY.** (3) (Prerequisites: 582-620 and 582-630B)

582-630B MEASUREMENT IN REHABILITATION II. (3) (Prerequisite: 513-607 or 204-305 or equivalent.) Theoretical and practical basis for measurement in rehabilitation research. Introduction to measurement theory, scale development and related statistics, approaches and instruments used to assess outcomes in patients with musculoskeletal, neurological, cardiovascular, respiratory, psychiatric or psychologic conditions.

582-631A,B RESEARCH PROPOSAL. (3) The course covers issues involved in the development of a research protocol. The presentation of a written thesis proposal is required by the end of the course. This document will serve as the basis for an oral presentation to the student's Supervisory Committee which will also review the written proposal.

582-661 RESEARCH PROJECT I. (6)

582-662 RESEARCH PROJECT II. (8)

582-701D PH.D. COMPREHENSIVE EXAMINATION.

62 Physical Education

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Fax: (514) 398-4186
Website: http://www.education.mcgill.ca/phys_ed/default.html

Chair — Hélène Perrault

M.A. Program Director — Dr. H. Perrault
Telephone: (514) 398-4184 (ext. 0477)

62.1 Staff

Professors
David Montgomery; B.Sc.(Guelph), M.Sc., Ph.D.(Purdue)
Hélène Perrault; B.Sc.(C'dia), M.Sc., Ph.D.(Montr.)
Greg Reid; B.Ed.(P.E.)(McG.), M.S.(Calif.), Ph.D.(Penn. State)
A. Edward Wall; B.Ed., M.A.(McG.), Ph.D.(Alta.)

Associate Professors
Margaret J. Downey; B.Ed., M.A., Ph.D.(McG)
David J. Pearsall; B.A., BPHE, M.Sc., Ph.D.(Queen's)
René A. Turcotte; H.B.P.H.E.(Lauren.), M.Sc., Ph.D.(Alta.)

Assistant Professor
Gordon Bloom; B.Ed.(W.Ont.), M.A.(York), Ph.D.(Ott.)
David J. Pearsall; B.A., BPHE, M.Sc., Ph.D.(Queen's)
René A. Turcotte; H.B.P.H.E.(Lauren.), M.Sc., Ph.D.(Alta.)

62.2 Programs Offered

The Physical Education Department offers thesis and non-thesis options leading to a Master of Arts. There are two main areas of concentration in each option of the M.A. program: Applied Sport Science and Applied Behavioral Science.

The Applied Sport Science option includes exercise physiology and biomechanics; the Applied Behavioural Science option includes adapted physical activity, psychology of sport and motor

Complementary Courses (6 credits)

Thesis Component – Required (24 credits)

Elective Courses (9 credits)

M.A. PHYSICAL EDUCATION (Non-thesis Option) (45 credits)
Project Component – Required (15 credits)

Complementary Courses (18 credits)

Elective Courses (12 credits)

Applied Sport Science Course List

Applied Behavioral Sciences Course List

* All courses on this list are available for both M.A. thesis and non-

63 Physics

Department of Physics

selected experimental papers. Open to advanced undergraduate and graduate students.

552-513B CELLULAR IMMUNOLOGY. (3) (4 hours lectures plus term paper) (Prerequisites: 528-314B, or permission of the instructor.) This course deals with cellular interactions, regulation and effector mechanisms of the normal immune response in relation to diseases and pathogenic processes. It is taught at an advanced level.

552-515A PHYSIOLOGY OF BLOOD I. (3) (2 hours lecture plus 1 hour seminar weekly) (Prerequisites: 552-313B, or permission of the instructor.) Study of the cell and molecular physiology of hemostasis and its pathophysiology (bleeding and thrombosis). Emphases on molecular mechanisms regulating clot formation, fibrinolysis, and cell adhesion/aggregation. Experimental approaches and specific clinical disorders will be analyzed. Weekly discussions, and a major term paper.

552-516B PHYSIOLOGY OF BLOOD II. (3) (2 hours lecture plus 1 hour seminar weekly) Bone marrow hematopoiesis, with emphasis on regulation of stem cell proliferation and differentiation along hematopoietic pathways. Formation and differentiation of red and white blood cells and some of the diseases associated with hemotopoiesis will be covered. Emphasis will be given to the molecular mechanisms involved in the normal and pathological conditions.

● **552-517B ARTIFICIAL INTERNAL ORGANS.** (3) (Prerequisite: permission of instructors. Password required)

552-518A ARTIFICIAL CELLS & BIOTECHNOLOGY. (3) (Prerequisite: Permission of instructors; password required) Physiology, biotechnology, chemistry and biomedical application of artificial cells, immobilized enzymes, microorganisms and cells, blood substitutes, hemoperfusion, and artificial kidneys. 517B and 518A when taken together, will give a complete picture of this field. However, the student can select one of these. Given jointly with the Artificial Cells and Organs Research Centre.

● **552-520B ION CHANNELS.** (3) (1½ hour lecture, 1½ hour seminar) (Prerequisites: 552-311A. Priority to Graduate and Honours students; others by permission of instructors. Password required.) (Offered in odd numbered years only.)

552-531B TOPICS IN APPLIED IMMUNOLOGY. (3) (Permission of the instructor; U3 Interdept. Honours Immunology students and graduate students with strong immunology background i.e. 552-513A and 507-503B.) Seminar format course in which experts in immunologic mechanisms of resistance against a variety of infectious diseases, including AIDS, malaria, and tuberculosis oversee student moderators in their presentation of recent scientific literature in the field.

552-550A PHYSIOLOGY OF BONE. (3) (1 hour lecture, 2hours per week) (Prerequisites: 552-311A, and 177-202B or equivalent) Preference given to Physiology graduate students, others by permission of instructor; passsword required.) Students will develop a working knowledge of cartilage and bone. Discussion topics will include: molecular and cellular environment of bone; heritable and acquired skeletal defects; research models used to study metabolic bone disease.

552-552B ADVANCED TOPICS IN CELLULAR AND MOLECULAR PHYSIOLOGY. (3) (1 hour lecture, 2 hours seminar weekly) (Prerequisite: 552-311A. Preference will be given to Physiology Honours and Graduate students.) Discussions of recent significant advances in our understanding of the gene products involved in diverse cellular signalling pathways. Topics will include cell-surface hormone receptors, nuclear steroid hormone receptors, and ion channels and transporters. Students will present and critically evaluate experimental approaches, results and interpretations of selected research publications.

552-556B TOPICS IN SYSTEMS NEUROSCIENCE. (3) (Permission of the instructor required. Limited enrolment. Password required.) (Not open to students who have taken 552-456B.) Topics of current interest in systems neurophysiology and behavioural neuroscience including: the neural representation of sensory information and motor behaviours, models of sensory motor integration, and the computational analysis of problems in motor control and perception. Students will be expected to present and critically discuss journal articles in class.

552-601A,B M.SC. PROPOSAL SEMINAR. (1)

552-602A,B,C LITERATURE SEARCH AND RESEARCH PROPOSAL. (3)

552-607A,B,C LABORATORY RESEARCH I. (3)

552-608A,B,C LABORATORY RESEARCH II. (3)

552-610A,B SEMINARS IN THEORETICAL BIOLOGY. (3) (Prerequisite: permission of the instructor.) A series of seminars in selected topics in theoretical biology and biomathematics.

552-618A RESEARCH TOPICS IN PHYSIOLOGY LITERATURE

65 Plant Science

Department of Plant Science
Macdonald Campus
21,111 Lakeshore Road
Sainte-Anne de Bellevue, Q CH9X 3V9
Canada

Telephone: (514) 398-7851
Fax: (514) 398-7897
Email: plantscience@macdonald.mcgill.ca
Website: http://www.agrenv.mcgill.ca/plant

Chair — M.G. Fortin

65.1 Staff

Emeritus Professors
R.H. Estey; B.Ed.(U.N.B.), M.S.(Maine), D.I.C.(Imp. Coll.), B.Sc.(Agr.), Ph.D.(McG.), F.L.S.
W.F. Grant; B.A., M.A.(McM.), Ph.D.(Va), F.L.S.
W.E. Sackston; B.S.A.(Man.), M.Sc.(McG.), Ph.D.(Minn.), F.C.P.S., F.A.P.S.
H.A. Steppler; B.S.A.(Man.), M.Sc., Ph.D.(McG.), F.A.I.C.

Professors
D.J.I. Buszard; B.Sc.(Bath), Ph.D.(Lond.)
D.L. Smith; B.Sc., M.Sc.(Acad.), Ph.D.(Guelph)
A.K. Watson; B.Sc.(Agr.), M.Sc.(Br.Col.), Ph.D.(Sask.)

Associate Professors
D.J. Donnelly; B.Sc.(Agr.) (McG.), M.Sc.(U.B.C), Ph.D.(S.Fraser)
P. Dutilleul; L.Sc., D.Sc.(Louvain)
M.G. Fortin; B.Sc.(Pl.Sc.), M.Sc.(Laval), Ph.D.(McG.) *(William Dawson Scholar)*
S. Jabaji-Hare; B.Sc.(Beirut), M.Sc.(Guelph), Ph.D.(Wat.)
A.C. Kushalappa; B.Sc., M.Sc.(B'Lore), Ph.D.(Flor.)
D. Mather; B.Sc.(Agr.) (McG.), M.Sc., Ph.D.(Guelph)
T.C. Paulitz; B.Sc.(Cal.St.Pom.), Ph.D.(U.Cal.Riv.)
S.A. Sparace; B.S.(C'nell), Ph.D.(Wyoming)
K.A. Stewart; B.Sc.(Agr.) (Br.Col.), Ph.D.(R'dg)
M. Waterway; B.A.(Grand Rapids), M.S.(Wis.), Ph.D.(C'nell)

Assistant Professor
P. Seguin; B.Sc.(Agr.), M.Sc.(McG), Ph.D.(Minn.)

Faculty Lecturers
S. Lussier; B.Sc.(Agr.) (McG.)
D. Wees; B.Sc.(Agr.), M.Sc.(McG.)

Associate Member
T. Johns

Adjunct Professors
M.R. Bullen, T.L. Capson, O. Carisse, D. Cloutier, W.K. Coleman, B.E. Coulman, S. Jenni, S. Khanizadeh, J.-F. Laliberté, C. Morris, L. O'Donoughue, T. Ouellet

65.2 Programs Offered

The Department offers an M.Sc. and Ph.D. in Plant Science and provides for study in all fields of the plant sciences. Research facilities – both field and laboratory – are available for investigations in plant breeding, crop physiology, crop management, plant ecology, the epidemiology and biology of plant diseases, the physiology of diseased plants, cytogenetics, biosystematics, recombinant DNA technology, mycology, weed biology, tissue culture and plant biochemistry.

An advisory committee is named for each student, having the responsibility for developing the program of study appropriate to the student's background and area of specialization.

65.3 Admission Requirements

General

An equivalent cumulative grade point average of 3.0/4.0 is required.

Ph.D.

ably in the applicant's area of specialization, are required. It is the

66.3 Admission Requirements

All applicants, including those who have done their undergraduate work at McGill, must submit at least two letters of reference. Transcripts from all universities attended must be sent to the Department.

Master's
Students holding a B.A. degree may be eligible for admission to the M.A. program. Preparation equivalent to a McGill Honours Program in Political Science is desirable. Students who have inadequate preparation in Political Science but are otherwise judged to be qualified are admitted to a qualifying year, in which they undertake advanced undergraduate work.

Ph.D.
Students holding a Master's degree in Political Science may be eligible for admission to the Ph.D. program. In some instances, students may be admitted directly into the Ph.D. program without having completed an MA degree. They will be considered Ph.D.1 and some previous political science course work could be applied to the requirements of the program, provided that it did not count towards any other degree.

GRE and TOEFL Exams

GRE results are required for applications to the Doctoral Program; this includes McGill Master's students applying to the Doctoral Program. GRE results are not required for students applying to the Master's Program or Qualifying term or year.

Non-Canadian students from countries where English is not the first language and who have not studied at a university in which teaching is conducted in English must submit TOEFL scores. A minimum score of 600 on the paper-based test (250 on the computer-based test) is required for admission. Files will not be considered unless TOEFL scores are received before the application deadline.

GRE information booklets and, when appropriate, TOEFL information booklets are included in the application package mailed to prospective students.

66.4 Application Procedures

Applications will be considered upon receipt of:

1. application form;
2. transcripts;
3. two letters of reference;
4. $60 application fee;
5. test results: TOEFL (if applicable) and GRE (for Ph.D. applicants).

All applications should be submitted to the Graduate Coordinator in the Department of Political Science.

The normal deadline for applications for admission to the Department is January 31. Applications must be received by that time in order to guarantee the fullest consideration. Later applications will be considered up to April 15.

66.5 Program Requirements

Requirements for the M.A. Degree (48 credits)

Students may select Option A (Thesis Option) or Option B (Research Project Option) in completing M.A. degree requirements. Students may switch from one option to the other while completing their coursework.

In addition, the Department offers an M.A. Research Project Option in Social Statistics.

A. Thesis Option

There are two requirements:

1. Five one-semester courses (5 x 3 credits). Where special requirements of a student's area of concentration so warrant, the Director of Graduate Studies may allow one of these courses to be taken at the upper undergraduate level. The substitution of one course outside Political Science in related disciplines may also be allowed if it is appropriate to the program.
2. A thesis to demonstrate proficiency in research. The thesis is normally about 100 pages long, and is subject to evaluation by one examiner internal to the Department and one examiner external to the Department.

B. Research Project Option

1. Seven one-semester courses (7 x 3 credits). Where special requirements of a student's area of concentration so warrant, the Director of Graduate Studies may allow one of these courses to be taken at the upper undergraduate level. The substitution of up to two courses outside Political Science in related disciplines may also be allowed if appropriate to the program.
2. A research paper to demonstrate proficiency in research. The research paper is normally about 50 pages in length and involves revision of a paper written for one of the graduate courses completed in the program. The research paper is evaluated by two faculty members in the Department.

For both of the above options, all students must take a graduate-level course in empirical methods (normally 160-612) OR a political theory course at the 500, 600 or 700-level BUT preferably both.

M.A. Project Option in Social Statistics

The program complements disciplinary training with statistical research. Students will normally complete program course requirements, supplemented by further statistical courses, as advised by the Option advisor, and subject to approval by the Department.

Entrance to this option is by appplication to the Social Statistics Option Committee *subsequent to acceptance into the Department program.*

All students must take a political theory course at the 500, 600 or 700-level OR 160-612 or a suitable more advanced empirical methods course BUT preferably both. In addition, students MUST take 160-688 Research Seminar in Social Statistics (or equivalent).

Candidates for the M.A. degree follow a program approved on an individual basis by the Department. All students who wish to be considered for the Ph.D. program are evaluated on the basis of their M.A. program. Only a small number of students are permitted to go on for their doctorate and students currently enrolled in the M.A. program must formally re-apply for admission into the Ph.D. program. A pass for the M.A. degree does not necessarily imply permission to proceed to the doctorate.

Requirements for the Ph.D. Degree

Superior applicants, normally understood as students who are at least in the top 10 percent of their graduating class or who have a CPGA of at least 3.5 or its equivalent, will be eligible for admission into the Ph.D. track and receive a Ph.D. degree after successfully completing the requirements of the Ph.D. track. These are:

A. Successful completion of 13 3-credit courses.

B. Distribution of Courses:

1. Two major fields in political science (satisfied by four courses and a written comprehensive examination in each field, as well as one integrated oral comprehensive examination covering both major fields).
2. One minor field (satisfied by 2 courses). Minor fields can be in any one of the five fields offered by the Department. Students may also petition the Graduate Committee to approve as a minor some special combination of courses which is suitable to a particular student's planned course of study.
3. An additional 3-credit course in either of the student's major fields or minor field, according to what best meets the particular student's needs.
4. Students are required to take one 700-level Ph.D. Research Seminar in each major field, as part of the four course requirement. In each of these 700-level seminars, students are

expected to complete a paper which focuses on a clearly defined research problem and is comparable in scope to an article in a professional journal. The papers should demonstrate the student's familiarity with the relevant scholarly work and his/her ability to carry out research and organize the results of the research. Each paper will be evaluated by two faculty members in the Department.

5. Methodology Requirements: All students are required to take at least one course in political theory at the 500, 600 or 700-level and a course on methods (160-612). Students who are given an exemption from a methodology course requirement because of course work completed prior to entering the M.A.-Ph.D. program will still be required to complete 13 3-credit courses.

C. Advanced Research Tools: The Department feels that it is essential that its Ph.D. students demonstrate a high level of proficiency in one of the two principal research tools of modern political science: languages or quantitative methods. Language Requirement: Students must pass an advanced-level translation test from a language other than English. In selecting a language to fulfill this requirement, the student must

SEMINARS

- **160-715B ISSUES IN CONTEMPORARY POLITICAL PHILOSOPHY.** (3)
- **160-720B TOPICS IN CANADIAN POLITICAL ECONOMY.** (3)
- **160-727B ÉTUDES SUR LA SOCIÉTÉ QUÉBÉCOISE.** (3) (The seminar will be given both in French and English; a reading ability and understanding of both languages is required.)
- **160-728B RESEARCH SEMINAR IN COMPARATIVE POLITICS.** (3) (Suggested prerequisites: 160-612B and 160-628A.)
- **160-731A POLITICAL IDEOLOGIES.** (3)
- **160-747B DEPENDENCE AND DEVELOPMENT.** (3)

160-771B SECURITY AND DEVELOPMENT. (3) (Prerequisites: A graduate-level course in international relations or comparative politics/developing areas.) A seminar focusing on the multiple security concerns of developing states including developmental (political, economic) and traditional (military, power political) pressures; linkages between internal and external vulnerabilities; the changing security environment of the post Cold War era; alternative external/internal strategies. These issues will be examined in comparative perspective.

- **160-777A RESEARCH SEMINAR ON INTERNATIONAL CRISES.** (3)

160-778A SECURITY AND POLITICAL ECONOMY WORKSHOP. (3) A workshop intended to help M.A. and Ph.D. students prepare their thesis proposals and chapters. Writing techniques and methodology will be covered. Students critique seminar presentations by leading scholars on their new works.

160-780A READING SEMINAR. (3) A research seminar on a topic that is not covered in the regular seminars, but which is of interest to a group of students and a faculty member. The exact topic for the research papers will be determined by mutual agreement among students and faculty members involved.

160-781B READING SEMINAR. (3) A research seminar on a topic that is not covered in the regular seminars, but which is of interest to a group of students and a faculty member. The exact topic for the research papers will be determined by mutual agreement among students and faculty members involved.

160-799A,B,D PH.D. ORAL COMPREHENSIVE EXAMINATION.

67 Psychiatry

Department of Psychiatry
1033 Pine Avenue West
Montreal, QC H3A 1A1
Canada

Telephone: (514) 398-4176
Fax: (514) 398-4370
Email: mstaudt@med.mcgill.ca
Website: http://www.mcgill.ca/Psychiatry/mscprog.html

Chair — J. Paris
Chair of Graduate Program — J. Rochford

67.1 Staff

Emeritus Professor
T.L. Sourkes; M.Sc.(McG.), Ph.D.(C'nell)

Professors
F. Abbott; B.Sc.(Trent), M.Sc., Ph.D.(McG.)
L. Annable; B.Sc.(Liver.), Dipl. in Stat.(Edin.)
C. Benkelfat; M.D.(Rabat)
P. Blier; B.Sc.(Bishop's), M.Sc., Ph.D., M.D.(Montr.)
P. Boksa; B.Sc., Ph.D.(Montr.)
G. Chouinard; B.A., M.D.(Montr.), Dipl.Psych.(McG.)
C. de Montigny; B.A., M.D., Ph.D.(Montr.)
M. Dongier; M.D.(Aix-Marseille), Dipl.Psych.(McG.)
F.R. Ervin; B.S.(Texas), M.D.(Tulane)
S. Gauthier; B.A., M.D.(Montr.)
A.M. Ghadirian; M.Sc.(Ohio), M.D.(Tabriz)
H.A. Guttman; M.D.(Geneva)
L.T. Hechtman; B.Sc., M.D., C.M.(McG.)
J. Henry; B.Sc.(Tor.), M.Sc., Ph.D.(W.Ont.)
L.J. Kirmayer; B.Sc., M.D.,C.M., Dipl.Psych.(McG.)
S. Lal; M.B., B.S.(Lond.), Dipl.Psych.(McG.)
E.P. Lester; M.D. (Athens);Dipl.Psych.(McG.)
M.J. Meaney; B.A.(Loyola), M.A., Ph.D.(C'dia.) *(James McGill Professor)*
K. Minde; M.D.(Munich), M.A.(Col.)
B.E. Murphy; M.D.(Tor.), Ph.D.(McG.)
V.N.P. Nair; M.B., B.S.(Kerala), D.P.M.(Mys.)
J.C. Negrete; M.D.C.M., (Tucuman) Dipl.Psych.(McG.)
R. Palmour; B.A., Ph.D.(Texas)
J. Paris; M.D.(McG.); Chair
J.C. Perry; M.D.(Duke)
G. Pinard; B.A.(Loyola), M.D., Dipl.Psych.(Montr.)
J. Poirier; Ph.D.(Montr.)
R. Quirion; B.Sc., M.Sc., Ph.D.(Sher.)
J.J. Sigal; B.Sc., B.Ed.(Alta.), M.A., Ph.D.(Montr.)
A. Young; B.A., M.A., Ph.D.(Penn.)
S. Young; B.A.(Oxon.), M.Sc., Ph.D.(Lond.)

Associate Professors
E.E. Corin; Ph.D.(Louvain)
B.O. Dubrovsky; M.D.(Buenos Aires)
N. Frasure-Smith; B.A., Ph.D.(Johns H.)
C. Gianoulakis; B.Sc.(Sir G.Wms.), Ph.D.(Rutgers)
K. Gill; B.Sc.(Br.Col.), M.A., Ph.D.(C'dia)
A. Gratton; Ph.D.(C'dia)
S. King; M.Ed., Ph.D.(Va.)
C. Mercier; B.A., M.Sc.(Laval), Ph.D.(Stras.)
J. Rochford; M.A.(Queen's), Ph.D.(C'dia)
L.K. Srivastava; B.Sc., M.Sc.(Alld.), Ph.D.(New Delhi)
S. Steinberg; M.D., C.M.(McG.)
C.-D. Walker; B.Sc., Ph.D.(Geneva)
M. Zoccolillo; B.Sc.(New Orleans), M.D.(Norfolk)

Assistant Professors
L. Beauclair; B.Sc., M.D.(Laval)
P. Beaudry; M.D.(Sher.), Dipl.Psych.(McG.)
S. Beaulieu; M.D./Ph.D.(Laval)
D. Bloom; B.Sc.(Regina), M.D.(Queen's)
D. Boivin; Ph.D(Montr.)
D. Charney; M.D.(McG.)
G. Debonnel; M.D.(Lyon)
J.B. Debruille; M.D.(Paris), Ph.D.(U Pierre et Marie Curie)
M. Elie; M.D.(McG.)
G. Galbaud du Fort; M.D., Ph.D.(Paris) *(joint appt. with Epidemiology and Biostatistics)*
S. Kar; Ph.D.(Lond.)
M. Leyton; Ph.D.(C'dia)
S. Lupien; Ph.D.(Montr.)
R. Tempier; M.D.(Aix-Marseille II)
S. Williams; Ph.D.(Montr.)

Adjunct Professors
L. Gaston; Ph.D.(Montr.)
S. Welner; Ph.D.(McG.)

Associate Members
R.G. Barr; M.A.(Tor.), M.D., C.M.(McG.) *(Pediatrics)*
R.O. Pihl; B.A.(Law.), M.A., Ph.D.(Ariz.) *(Psychology)*

67.2 Programs Offered

Master of Science (M.Sc).

The M.Sc. program in Psychiatry is designed (1) to provide a mechanism for the training of medical scientists who intend to pursue a research career in psychiatry and (2) to provide a focus for basic science or social science students wishing to obtain advanced training in areas particularly relevant to psychiatric research. Students in this program receive no clinical training in psychiatry.

67.3 Admission Requirements

A B.Sc., B.A., B.N. or M.D. degree.

A strong background in science and/or social science, as demonstrated by academic achievement equivalent to a GPA of 3.0 (on a 4 point scale).

A written statement of purpose, describing the specific reasons for seeking a Master of Science degree in Psychiatry.

An outline of the proposed thesis research, to be written by the prospective student in collaboration with an appropriate research supervisor.

Two letters of reference.

Proficiency in written English or French.

67.4 Application Procedures

Applications will be considered upon receipt of:

1. a completed application form;
2. two official transcripts;
3. two letters of reference;
4. Cdn $60.00 application fee;
5. written agreement from the proposed research supervisor, and student's statement of purpose

R. Melzack; B.Sc., M.Sc., Ph.D.(McG.) *(E.P. Taylor Emeritus Professor of Psychology)*
P. Milner; B.Sc.(Leeds), M.Sc., Ph.D.(McG.)

Professors
F.E. Aboud; B.A.(Tor.), M.A., Ph.D.(McG.)
I.M. Binik; B.A.(N.Y.U.), M.A., Ph.D.(Penn.)
B. Ditto; B.S.(Iowa), Ph.D.(Ind.)
K.B.J. Franklin; B.A., M.A.(Auck.), Ph.D.(Lond.)
F.H. Genesee; B.A.(W.Ont.), M.A., Ph.D.(McG.)
A.A.J. Marley; B.Sc.(Birm.), Ph.D.(Penn.)
D.S. Moskowitz; B.S.(Kirkland), M.A., Ph.D.(Conn.)
D.J. Ostry; B.A.Sc., M.A.Sc., Ph.D.(Tor.)
L.A. Petitto; B.S.(Ramapo State), M.A.(N.Y.U.), Ph.D.(Harv.)
M. Petrides; B.Sc., M.Sc.(Lond.), Ph.D.(Cantab.)
R.O. Pihl; B.A.(Lawrence), Ph.D.(Ariz.)
J.O. Ramsay; B.Ed.(Alta.), Ph.D.(Prin.)
B. Sherwin; B.A., M.A., Ph.D.(C'dia) *(James McGill Professor)*
T.R. Shultz; B.A.(Minn.), Ph.D.(Yale)
Y. Takane; B.L., M.A.(Tokyo), Ph.D.(N. Carolina)
D.M. Taylor; M.A., Ph.D.(W.Ont.)
N. White; B.A.(McG.), M.A., Ph.D.(Pitt.)
D.C. Zuroff; B.A.(Harv.), M.A., Ph.D.(Conn.)

Associate Professors
A.G. Baker; B.A.(Br.Col.), M.A., Ph.D.(Dal.)
M. Baldwin; B.A.(Tor.), M.A., Ph.D.(Wat.)
A. Chaudhuri; B.Sc., M.Sc.(Tor.), Ph.D.(U.C.Berk.)
D. Donderi; B.A., B.Sc.(Chic.), Ph.D.(C'nell.)
K. Dunbar; B.A., M.A., (U.C.D.), Ph.D.(Tor.)
R. Koestner; B.A., Ph.D.(Roch)
J. Lydon; B.A.(Notre Dame), M.A., Ph.D.(Wat.)
M.J. Mendelson; B.Sc.(McG.), A.M., Ph.D.(Harv.)
M. Shapiro; B.A.(Colby Col.), M.A., Ph.D.(Johns H.)
F.E. Wilkinson; B.A.(McG.), M.A., Ph.D.(Dal.)

Assistant Professors
J. Abela; B.A.(Brown), M.A., Ph.D.(Penn.)
B. Knauper; Dr.phil.(Germany)
D.J. Levitin; A.B.(Stan.), M.S., Ph.D.(Oregon)
G. O'Driscoll; B.A.(Wellesley), Ph.D.(Har.)

Lecturers
N. Allard; R. Amsel

Associate Members
F. Abbott *(School of Nursing, Psychiatry)*
C. Baker, F.A.A. Kingdom, K. Mullen *(McGill Vision Research Centre)*
T. Coderre *(Clinical Research Institute of Montreal)*
R. Hess, B. Jones, M. Jones-Gotman, B. Milner, T. Paus, V. Sziklas, R. Zatorre *(Montreal Neurological Institute)*
V. Patel *(Centre for Medical Education)*
H. Steiger *(Douglas Hospital Research Centre)*

Part-Time Appointments
I. Bradley; Ph.D
J. MacDougall; Ph.D
Y. Oshima-Takane; Ph.D
C. Schopflocher; M.A.
Z. Rosberger; Ph.D.
C. Zacchia; Ph.D.
P. Zelazo; Ph.D.

Clinical Consultants
F. Cramer-Azima, S. Burstein, C. Garson, P. Gregoire, Z. Rosberger, D. Sookman, M. Spevack, H. Steiger, A. Surkis

68.2 Programs offered

4. a fee of $60, in Canadian funds, by cheque or money order made payable to McGill University;
5. a completed application summary sheet for the Psychology Department;
6. a personal statement with their full name outlining their interests in psychology and their career goals; and
7. official reports and a photocopy of scores on the General and

70 Religious Studies

Faculty of Religious Studies
3520 University Street
Montreal, QC H3A 2A7
Canada

Telephone: (514) 398-4121
Fax: (514) 398-6665
Website: http://www.mcgill.ca/religion

Dean, Faculty of Religious Studies — B. Barry Levy

70.1 Staff

Emeritus Professors
G.B. Baum; B.A.(McM.), M.A.(Ohio), D.Th.(Fribourg)
D.J. Hall; B.A.(W.Ont.), M.Div., S.T.M., Th.D.(U.T.S., N.Y.),

oral and written English, e.g. TOEFL (Test of English as a Foreign Language) with a minimum score of 577 on the paper-based test (233 on the computer-based test).

The application deadline for September admission is February 1. The deadline for January admission is October 1.

70.5 Program Requirements

Language Requirements
Graduate work in Old Testament studies requires competence in Hebrew; New Testament studies requires competence in Greek: Hindu and Buddhist studies normally require competence in Sanskrit, and, where relevant, Classical Chinese, Japanese, Pali and/or a modern Indian language.

Candidates for the M.A. are required to demonstrate a reading proficiency in a modern language, normally French or German, but students may apply to be examined in another modern language if it is more relevant to their specialty. Those entering M.A.1 are expected to pass the modern language requirement by the end of their second term. Exemption from these requirements is granted to those who have proof of reading competence in the language.

Doctoral candidates are required to demonstrate reading proficiency in two modern languages (usually French and German) by the end of their Ph.D. 2 year. It is recommended that one or both of these languages be included in the bachelor's or master's work preceding doctoral study.

MASTER OF ARTS (M.A.) (thesis) (48 credit program)

The normal residence requirement is three semesters of full-time resident study. Students may apply to do the third semester during the summer of their first year. Students may also register on a half-time basis.

Candidates are required to complete satisfactorily a minimum of six, one-term courses (18 credits) and write a thesis (30 credits) embodying the results of their research. The minimum pass mark in courses is 65% (B-) for M.A. students.

Research may be undertaken in the areas of specialization listed in section 70.2.

All students must consult with an adviser in the chosen area of study for selection of courses before registration.

DOCTOR OF PHILOSOPHY (PH.D.)

Residency for a candidate admitted to Ph.D. I is 3 consecutive years (6 terms) of full-time study and research. Half-time study may be permitted upon request. Residency for candidates admitted to Ph.D. II is 2 consecutive years (4 terms).

Candidates admitted to Ph.D. 1 take a minimum six graduate seminars during their first year and four seminars during their Ph.D. 2 year; those admitted to Ph.D. 2, must take a minimum of four graduate seminars. If possible, two seminars should be in their area of specialization, and at least one should be at the 700-level.

Supervision: One of the professors in the area of specialization acts as program adviser of each candidate in that area until a thesis supervisor is selected. Candidates must meet with their adviser or supervisor prior to registration to select their courses and to obtain advice concerning the requirements they are obliged to meet (e.g. courses, modern languages, ancient languages, and comprehensive examinations). A thesis proposal (approved by the supervisor) must be submitted to the Religious Studies Graduate committee for approval by the time the course work is finished, or as soon as possible afterwards. The candidate is expected to be present for the discussion of the proposal. The thesis should be submitted no later than the Ph.D. 6 year, though an extension may be granted if there is evidence of significant progress on the thesis.

Comprehensive Examinations These examinations are designed to ensure that candidates are adequately prepared to undertake the research required for a doctoral thesis and to teach university level courses in their chosen field. They are meant to test students' competence in: 1) their chosen field, 2) one or two cognate areas. The latter are areas related to the chosen field and are to be determined by the supervisor in consultation with the candidate. Comprehensives may take the form of a written exam-
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AREA D (COMPARATIVE STUDY)

397-531D SURVEY OF THE DEVELOPMENT OF ISLAMIC THOUGHT. (6) A survey of the development of the major intellectual traditions of Islamic civilization in medieval and modern times.

260-546B INDIAN PHILOSOPHY. (3) (Prerequisites: 6 credits in Indian religions or philosophy of religion, or permission of the instructor.) A study of orthodox systems of hindu philosophy leading up to Vedanta, i.e. Nyaya, Vaisesika, Sankhya, Yoga and Mimamsa, including discussion of the ground of belief and disbelief in God, the nature of revelation and the means of knowledge.

- **260-547B HINDU PHILOSOPHY II.** (3) (Prerequisite: 6 credits in Indian religions, philosophy of religion, philosophy, or permission of the instructor.)

- **260-548A INDIAN BUDDHIST METAPHYSICS.** (3) (Prerequisites: 260-252A or 260-342A/B or permission of instructor.)

- **260-549A TOPICS IN EAST ASIAN PHILOSOPHY.** (3) (Prerequisites: 260-253B and 260-342A or 260-344B, or approval of instructor.)

260-550B AREA STUDIES – COMPARATIVE RELIGION. (3) For S.T.M. students. Tutorials and guided reading in the field of Com-

The minimum academic requirement is normally a high standing in Honours Russian. Further, the Department must be convinced that the candidate for admission has an aptitude for research work and will be able to make an original contribution to knowledge.

A working knowledge of French is recommended for the Ph.D. program.

Ph.D. Programs
Candidates for a Ph.D. will normally have taken their M.A. in the same field. Please refer to the appropriate Department – Anthropology, History, or Sociology.

72.4 Application Procedures

M.A. in Medical Anthropology
Admission is granted by a joint admissions committee made up of representatives from Anthropology and SSOM.

For details concerning applications, teaching assistantships, fellowships, etc. see Department of Anthropology.

M.A. in the History of Medicine
Application is made directly to the History Department. For details

Each student works out a study plan in consultation with her/his academic advisor in relation to the student's identified study goals. Broadly speaking, these include Child and Family Welfare, Health and Well-Being Through the Life Cycle, and Community Development.

There are two options, non-thesis (practicum and independent study project) and thesis (thesis, no practicum). Both options carry a weight of 45 credits, and, taken on a full-time basis, both options involve three terms of study. In both options, part-time study can be arranged (see section on Duration and Time Limitations below).

M.S.W. (Non-Thesis Option) (45 credits)

This option is designed for students who are interested in developing skills in specialized practice and policy analysis. Requirements are:

A practicum (12 credits) (407-650, -651 and 660). This permits the student to develop and demonstrate professional competence at an advanced level. (N.B. Students without the ability to use French may find their choice of placements restricted.)

Classroom work, eight courses (24 credits) normally selected from the list below. Students are required to take course 407-612 Knowledge, Values and Practice and one of the research methods courses. Tutorials may be arranged to suit a student's learning priorities.

407-542B INTEGRATED STUDIES IN HIV. (3) An examination of HIV prevention, care and treatment with an interdisciplinary health profession's focus practice with women as mothers.

407-600A MOTHERING AND SOCIAL WORK PRACTICE. (3) This course will explore the ideology and reality of mothering in patriarchal society. The intervention of social work and how this has tended to reproduce dominant attitudes towards mothers and mothering will be analyzed as a prerequisite to the development of alternative modes of practice.

407-601B THE CONSTRUCTION OF SUBJECTIVITY. (3) This course will present a critical approach to understanding how personality is constructed within the major social relations of class, gender and race. Relevance to students' research and practice interests will be explored.

407-604A CRITICAL ISSUES: SOCIAL POLICY. (3) With the erosion of the contempoary welfare state, analysts have argued that state responsibility for social and economic well-being has been shifted to the private sphere, notably familes. This course explores how social policies and practices contribute to this shift, and how gender, class and inequalities are thereby reinforced.

407-606B PRACTICE IN CHILD WELFARE. (3) Reflection on current practices in child welfare. An overview of contemporary theoretical frameworks and students' experiences in the field will form the basis of class discussion. Topics include: the construction of abuse and neglect; the risk ethos, families'/mothers' experiences of child welfare services; the reflective practitioner and resistance.

● **407-607A SCHOOL SOCIAL SERVICES.** (3)

407-608A SEMINAR IN CORRECTIONS. (3) An examination of theories of criminal behaviour and their implications for social work practice. Analysis of selected correctional programs, their theoretical bases and their effectiveness in modifying criminal behaviour.

● **407-609B HEALTH AND SOCIAL WORK.** (3) (Not open to students who have taken 407-354.)

407-610B FAMILY TREATMENT. (3) (Prerequisite 407-622A) An advanced seminar on techniques and practice of current therapies.

407-611B SUBSTITUTE CARE: CHILD/ADOLESCENT. (3) (Not open to students who have taken 407-541.) Policy and practice implications for children and adolescents of out-of-home care (family foster care, adoption, residential care), child day care and reproductive technology. Umbrella concepts of family preservation, permanency planning, and the continuum of care will be addressed, also the effects of legal mandates on child welfare practice.

407-612A KNOWLEDGE, VALUES AND PRACTICE. (3) (Required course) Introduction of the current debate about the status of knowledge in the social sciences, especially issues of scientific objectivity, cultural differences and their implications for social work practice.

407-615B APPLIED CLINICAL RESEARCH. (3) This is a research course for clinical social work practitioners which includes research design and analysis with small samples, for applied clinical research and service evaluation; empirical measures for client assessment and treatment outcomes; professional and ethical issues in applied clinical research.

407-622A FAMILY ASSESSMENT AND TREATMENT. (3) A seminar on current techniques of family diagnosis and therapy.

407-623A COUPLE COUNSELLING. (3) Triadic perspective on couple counselling. Topics include: value issues; origins of intimate conflict; characteristics of troubled couples; presenting couple complaints; separation; treatment techniques: alliances, cbP(((b,+cT/44,+mT(PWpractitioners whic4W5:

74.1 Staff

Emeritus Professor
Maurice Pinard; B.A., LL.L., M.A.(Montr.), Ph.D.(Johns H.), F.R.S.C.

Professors
John A. Hall; B.A.(Oxon.), M.A.(Penn. St.), Ph.D.(L.S.E.) *(James McGill Professor)*
Michael Smith; B.A.(Leic.), M.A., Ph.D.(Brown)
Suzanne Staggenborg; B.A.(Miami), M.A.(Wash.), Ph.D.(Northwestern)
Axel P.M. van den Berg; Kand.Doc.(Amsterdam), Ph.D.(McG.)
Morton Weinfeld; B.A.(McG.), Ed.M., Ph.D.(Harv.) *(Chair, Canadian Ethnic Studies)*

Associate Professors
Lucia Benaquisto; B.A.(S.U.N.Y., Albany), A.M. Ph.D.(Harv.)
Alberto Cambrosio; M.A.(Sher.), Ph.D.(Montr.) *(Social Studies of Medicine) (on leave Fall 2001)*
Roger G. Krohn; B.A.(St. Olaf), M.A., Ph.D.(Minn.)
Uli Locher; V.D.M.(Berne), S.T.M., Ph.D.(Yale) *(on leave 2001-02)*
Anthony Masi; A.B.(Colgate), M.A., Ph.D.(Brown)
Prue Rains; B.A.(Lake Forest), M.A., Ph.D.(Northwestern)
Steven L. Rytina; B.G.S., Ph.D.(Mich.)
Donald von Eschen; A.B.(Beloit), M.A.(Chic.), Ph.D.(Johns H.)

Assistant Professor
Jessie M. Tzeng; B.A.(Tunghai), M.Sc., Ph.D.(Wisconsin-Madison) *(on leave 2001-02)*

Adjunct Professors
Catherine Montgomery, B.A.(Carleton), M.Sc., Ph.D.(Montr.)
Rodney Nelson; B.A.(Regina), M.A.(Wash.), Ph.D.(Tor.)

Associate Members
David Aberbach (Religious Studies)
Gregory Baum (Religious Studies)

6. Statement of Academic Background - a brief statement of the applicant's interests and the areas of sociology he/she wishes to study at McGill.
7. One or two samples of written work. This can be in the form of a graded paper or a chapter from a thesis and must be at least 15 typewritten pages in length translated into English or French.
8. M.A. Option Form (for M.A. applicants only).
9. $60 application fee (certified cheque, money order or credit card payment).
10. Two address labels which will serve to acknowledge both the receipt of the application and the decision taken by the Graduate Committee.

Applications can be obtained by contacting the Graduate Secretary, Department of Sociology at (514) 398-6847, sending a fax to (514) 398-3403, emailing franca.cianci@mcgill.ca or sending a request in writing to the Sociology Department Office.

M.A. in Medical Sociology
Admission is granted by a joint admissions committee made up of representatives from Sociology and Social Studies of Medicine.

74.5 Program Requirements

M.A. PROGRAM OPTIONS
The M.A. degree has five options:

non-thesis option consisting of seven required courses plus a research paper;
thesis option with five required courses and a thesis;
M.A. program thesis option in Medical Sociology, which requires six courses plus a thesis;
M.A. program in Medical Sociology non-thesis which requires seven courses plus a research paper; and
M.A. program in Social Statistics non-thesis which requires seven courses (supplemented by further statistical courses) plus a statistics-based research paper.

Although the non-thesis option requires more course work, students taking this option are likely to obtain the M.A. more rapidly than those in the thesis option because of the difficulty and length of time involved in completing an M.A. thesis. The expectation is that most students will choose the non-thesis Master's program so as to progress in their career more quickly, especially those pursuing a doctoral degree. The programs are described in more detail below.

M.A. Degree Program Non-Thesis Option (45 credits)
Required Courses (12 credits)

Should a student be granted an exemption from any one or more

fieldwork must be conducted in Latin America on a topic approved by the NEO coordinating committee.

REQUIREMENTS FOR THE PH.D. DEGREE

A minimum of three years of study is required. There is one year of course work consisting of six courses. It is important to note that students admitted without any one or more of the required courses or their equivalent at the M.A. level (166-580, 166- 652, 166-504, and 166-540) will be expected to make up any deficiencies in addition to the regular course requirements.

Course Requirements: Ph.D. students are required to take six additional courses, the only required course being 166-505B Quantitative Methods of Social Research II. The other five courses can be chosen from among the elective courses listed in the Sociology Department course offerings.

Examination Requirements: Ph.D. Candidates must take examinations in two subfields of sociology. These fields will be chosen from the Department's areas of specialization.

Examinations must be completed and the student's candidacy for the degree established no later than the end of the third year of graduate study.

Language Requirement: Ph.D. Candidates must demonstrate ability to read French with high proficiency or to read another language which is relevant to the candidate's field of research. The language requirement should be met by the end of the third year and may be satisfied by taking the French language course for Ph.D. students at the Centre for French Language and Literature at McGill, or by having a written examination in the Department or by exemption.

Thesis Requirement: Ph.D. Candidates are required to submit a thesis on an approved topic. The topic must be approved by a dissertation proposal committee convened by the student's dissertation supervisor. The thesis should be completed within five years after the initial residency period of two years.

Further details on the requirement and regulations for the thesis and the fields in which the Department is prepared to direct research may be obtained from the Graduate Coordinator of the Department at sharon.barqueiro@mcgill.ca or via the Web at http://www.mcgill.ca/fgsr/gso/thesis.htm.

74.6 Courses

NOTE: All undergraduate courses administered by the Faculties of Arts and of Science (courses at the 100- to 500-level) have limited enrolment.

166-590A CONFLICT & STATE BREAKDOWN. (3) (Restriction: open to graduate students in Sociology, Political Science, Anthropology and History. Undergraduate students require permission of the instructor.) Survey of central theories of ethic conflict, state breakdown, and warlordism in the developing world. Emphasis on the conflicts of the 1990s in Africa, the former Soviet Union, and the Balkans.

● **166-612B INDUSTRIAL SOCIOLOGY.** (3) (Restriction: Only open to graduate students.)

● **166-626B SEMINAR: LABOUR MARKET STRUCTURE AND STRIKES.** (3) (Pre- or co-requisite: 166-504)

166-627A SEMINAR: POLITICAL SOCIOLOGY. (3) Key theories and empirical areas of political sociology. Major works relevant to each theme will be read and analyzed. Topics include: political socialization, the social psychology of political behaviour, class and politics, political organizations, elite studies. A research paper in one of the areas covered will be required.

166-629B SEMINAR: ETHNICITY AND PUBLIC POLICY. (3) Major themes in the theoretical literature on ethnicity. Public policies with direct and indirect implications for inter-ethnic relations will be studied. Policies affecting areas such as language, education, immigration, employment and promotion, multiculturalism and welfare. Examples drawn from several multi-ethnic societies. Political, constitutional, and economic problems associated with these policy initiatives.

166-652A CURRENT SOCIOLOGICAL THEORY. (3) (Prerequisite: 166-330) Examination of works in some major areas of Sociology

J.D. Bobyn; B.Sc., M.Sc.(McG.), Ph.D.(Tor.)
S. Chevalier; B.Sc., M.Sc., Ph.D.(Montr.)
D. Fleiszer; B.Sc., M.D., C.M.(McG.)
J.M. Laberge; M.D.(Laval)
L. Lessard; B.Sc., M.D.(Laval), F.R.C.S.(C)
J.S. Mort; B.Sc.(McG.), Ph.D.(McM.)
R. St.-Arnaud; Ph.D.(Laval)
J. Sampalis; M.Sc., Ph.D.(McG.)
T. Taketo-Hosotani; B.Sc., M.Sc., Ph.D.(Kyoto)
C.I. Tchervenkov; B.Sc., M.D.C.M.(McG.), F.R.C.S.(C)
J.I. Tchervenkov; M.D.C.M.(McG.), F.R.C.S.(C)
D. Zukor; M.D., B.Sc.; C.M.(McG.)

Assistant Professors
A. Philip; M.Sc., Ph.D.(McG.)
M. Chevrette; B.Sc., M.Sc., Ph.D.(Laval)
H. Flageole; M.D., M.Sc.(McG.)
R.C. Hamdy; M.Sc, M.D.(Egypt), F.R.C.S. (C)
K.J. Lachapelle; M.Sc., M.D.(McG.)
E. Lee; B.A.(Boston), M.Sc., Ph.D.(McG.)
S. Meterissian; M.D.,C.M., M.Sc.(McG.)
A.D. Recklies; B.Sc.(McG.), Ph.D.(McM.)
K. Shaw; M.D., C.M., M.Sc.(McG.)
D. Shum-Tim; M.Sc., M.D.(McG.)
T. Steffen, M.D. (Switz.), Ph.D. (McG.)

75.2 Programs Offered

The Department of Surgery offers graduate programs leading to M.Sc. and Ph.D. degrees.

The main research interests in the Department include projects in islet cell differentiation and islet transplantation, tissue engineering of cardiac muscle, immunopathogenesis of liver xenograft rejection, lung transplantation; tissue repair and engineering for plastic surgery applications; cartilage regeneration, osteoinduction and biomechanics; sepsis and multi-organ failure; biology of cancer; sexual dysfunction, prostate cancer and kidney stones; and surgical epidemiology.

A list of research directors and a description of their research topics, as well as application forms may be obtained from
Mrs. Irene Sidorenko, Division of Surgical Research,
Montreal General Hospital, Rm. C9-160 (937-6011 x 2837)
email: irenes@med.mcgill.ca

75.3 Admission Requirements

Graduate Diploma in Surgical Health Care Research

The program is open to all graduate students in the Division of Surgical Research, but is specifically designed for surgical residents who have allotted time during their residency training. To be accepted into the Graduate Diploma Program students must be accepted into the Division of Surgical Research; fulfill the minimum requirements for admission of the Faculty of Graduate Studies and Research; identify an acceptable and feasible research project; and identify an accredited faculty member willing to support the research and supervise the student. The program is under the responsibility of Professor John Sampalis.

M.Sc. Program

Usually a B.Sc., M.D. or M.V.D. degree, with a minimum CGPA of 3.2. Applications will be accepted from candidates sponsored by a research supervisor willing to provide laboratory space and direction for their research work.

Ph.D. Program

Admission is usually from the M.Sc. program either upon completion of the M.Sc. degree, or by transfer from the first year of M.Sc. to the second year of Ph.D. studies. Request for such transfer is to be made in writing by the thesis supervisor during the candidate's first year of M.Sc. studies, not later than March 30th for students enrolled in September, or November 1st for those registered in January. **Transfer is granted on the basis of an examination administered by the student's Research Supervisory Committee.**

Students with an M.Sc. degree from other departments or from other recognized universities, whose M.Sc. topic is closely related to the subject of their Ph.D. research, may be given credit for one year of their M.Sc. and be admitted directly into the Ph.D. program, at the level of Ph.D.2, at the discretion of the Department. Exceptional students with a Master's degree unrelated to their proposed research may be admitted to Ph.D.1 directly.

75.4 Application Procedures

Applicants must submit a completed application form including a brief curriculum vitae, a short description of the proposed thesis research (prepared by the student and/or the prospective research director), a cheque for $60 payable to McGill University, as well as two copies of all academic transcripts and two letters of recommendation mailed directly to the Department.

Deadline for receipt of complete applications:
May 1st for the September term.
October 1st for the January term.
February 2nd for International students.
March 1st for Diploma program.

75.5 Program Requirements

Graduate Diploma in Surgical Health Care Research

This diploma program consists primarily of coursework, however a research project must be completed to obtain the required 30 credits. The program is designed to be completed within one year.

Required Courses (18 credits)

519-606A	(3)	Statistics for Surgical Research
519-601D	(6)	Seminars in Surgical Research
519-637A	(9)	Research Project

Complementary Courses (12 credits)

at least 3 credits from the following courses:

513-656C	(3)	Health Care Technology Assessment
513-679C	(3)	Topics in Clinical Epidemiology
516-631L	(3)	Advanced Topics in Economic Evaluation
513-633L*	(2)	Pharmacoepidemiology I: Introduction
513-631L*	(2)	Pharmacoepidemiology II: Methods

* Must be taken in tandem for a total of four credits.

at least 9 credits from the following courses:

513-606A,B,C	(3)	Epidemiology: Principles and Methods
513-607A	(3)	Principles of Inferential Statistics
513-610A	(3)	Occurence of Health Events
513-463A	(1)	Substantive Epidemiology; Health Policy
513-655A	(3)	Epidemiology in Public Heatlh
513-668A	(2)	Special Topics: Trauma
582-630B	(3)	Measurement in Rehabilitation
513-643C	(1)	Evidence-Based Medicine
513-633L*	(2)	Pharmacoepidemiology I:Introduction
513-631L*	(2)	Pharmacoepidemiology II: Methods
516-631L	(3)	Advanced Topics in Economic Evaluation

* Must be taken in tandem for a total of four credits.

M.Sc. Program

The M.Sc. program consists of research work in preparation of a thesis and completion of required courses for a total of 48 credits. The program is to be completed during three terms; an additional term is assigned for the preparation of the thesis.

The course requirements for a total of 15 credits are as follows:
519-601D Seminars in Surgical Research (6)
519-606A Statistics for Surgical Research (3)
519-605B Issues in Biomedical Research (3)

A graduate level course in the student's specialty is also mandatory. Selection of the former and of additional courses, if required, will be in consultation with a Research Supervisory Committee appointed for each student.

The laboratory research component of the program is given 33 credits.

once a technical and a politcal process which brings together actors from the public, private and community spheres. Planners

409-604A PLANNING PROJECTS III. (STUDIO) (6) (Prerequisites: Planning Projects I and II.) The second-year studio is designed to permit the study of planning problems in depth. Problems are chosen depending on the experience and research interests of the participants, or for their topical nature.

409-605A,B G