308-630A SOFTWARE DEVELOPMENT ENVIRONMENT TECHNIQUES. (4) (3 hours) (Prerequisite: 308-434) The course aims to teach the main features of, and the techniques to construct, Software Development Environments (SDEs). Students would benefit from this course by obtaining an understanding of the practical problems in large scale software development projects, and how formal and practical approaches may be put to use in solving these problems.

Professor Madhavji

308-631A SOFTWARE PROCESS ENGINEERING. (4) (3 hours) (Prerequisite: 308-434) Software is critical; the record is poor, and improvement action is needed. The quality of a software system is governed by the quality of the process used to develop and maintain it. The course aims to describe the technical and managerial topics critical in the design, engineering and management of software processes.

Professor Madhavji


Professor Toussaint

308-648B MOTION PLANNING AND ROBOTICS. (4) (3 hours) (Prerequisite: 308-547) Recent work in parallel search techniques. Algorithms to be considered are: parallel branch and bound, parallel minimax and parallel resolution techniques for theorem proving. Students will be introduced to the main features of, and the techniques to construct, Software Development Environments (SDEs). Students would benefit from this course by obtaining an understanding of the practical problems in large scale software development projects, and how formal and practical approaches may be put to use in solving these problems.

Professor Whitesides

308-650B ANALYSIS OF COMBINATORIAL ALGORITHMS. (4) (3 hours) Design, implementation and analysis of efficient combinatorial algorithms for computing shortest paths, network flows, minimum cost network flows, spanning trees and matching in graphs. Applications to reliability of networks, critical path, transportation, vehicle routing and machine sequencing problems. Efficient use of data structures to reduce running time.

Professor Avis

308-675A PARALLEL SEARCH PROBLEMS. (4) (3 hours) A study of recent work in parallel search techniques. Algorithms to be considered are: parallel branch and bound, parallel minimax and parallel resolution techniques for theorem proving. Students will be expected to write programs implementing algorithms for parallel search on the School's 32-processor BBN parallel computer.

Professor Newborn


Professor Devroye

308-694A, B, C RESEARCH PROJECT I. (6)* Ongoing research pertaining to project.

308-695A, B, C RESEARCH PROJECT II. (6)* Ongoing research pertaining to project.

308-698A, B, C THESIS RESEARCH I. (9)* Ongoing research pertaining to thesis.

308-699A, B, C THESIS RESEARCH II. (15)* Ongoing research pertaining to thesis.

308-700A PH.D. COMPREHENSIVE EXAMINATION. (4)

308-701A, B SUMMER THESIS PROPOSAL AND AREA EXAMINATION. (4)

308-760A ADVANCED TOPICS: THEORY I. (4)

308-761B ADVANCED TOPICS: THEORY II. (4)

308-762A ADVANCED TOPICS: PROGRAMMING I. (4)

308-763B ADVANCED TOPICS: PROGRAMMING II. (4)

308-764A ADVANCED TOPICS: SYSTEMS I. (4)

308-765B ADVANCED TOPICS: SYSTEMS II. (4)

308-766A ADVANCED TOPICS: APPLICATIONS I. (4)

308-767B ADVANCED TOPICS: APPLICATIONS II. (4)

* Restricted to Computer Science students.

20 Culture and Values in Education

Department of Culture and Values in Education

Education Building

3700 McTavish Street, Room 440

Montreal, QC H3A 1Y2

Telephone: (514) 398-6972 or 398-5068

Fax: (514) 398-4642

Website: http://www.mcgill.ca/cve/cve.html

Chair — David C. Smith

Director of Graduate Programs — TBA

20.1 Staff

Professors


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

Barry Levy; B.A., M.A., BRE(YESHIVA), Ph.D.(N.Y.U.)

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


Associate Professors

Martin Jeffery; B.A., S.T.L., M.A.(Ott.) (PT)

Yarema G. Kelebay; B.A., B.Ed.(Montr.), M.A.(Sir G.Wms.), Ph.D.(C'dia) (joint appt. with Educational Studies)

William Lawlor; B.Com., B.Ed.(Montr.), M.A., Ph.D.(Ott.) (PT)

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

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

Assistant Professors

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

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

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


Faculty Lecturer

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

Adjunct Professors

Henry A. Giroux; B.S.(S.Maine), M.A.(Appalachian St.), Ph.D.(Carnegie-Mellon)

Jaswant K. Guzder; B.Sc., M.D.C.M., Dip. Psychiatry(McG.)

Gabriel Moran; B.A., M.A., Ph.D.(Catholic U. of America)

Peter Roche de Coppers; B.S.(Col.), M.A., Ph.D.(Fordham), M.S.W.(Montr.)

20.2 Programs Offered

The Department offers M.A. (thesis and non-thesis options) and Ph.D.(ad hoc) degrees. Prospective applicants to the Ph.D.(ad hoc) program should contact the Department at (514) 398-5068. Applicants should be advised that these degrees do not confer certification to teach in the province of Quebec.

The M.A. program is designed to support enquiries into the meaning and purpose of education, to help candidates gain facility.
in appropriate research skills, and to develop innovative approaches to educational thought and practice. The program encourages research into educational issues that have a culture and/or values orientation as a key investigative focus on more specific topics covered in the department – such as philosophy of education, international and comparative education, multicultural education, gender education, religious/spirituality education, values/moral education, peace education, art and aesthetics education. Students are expected to plan the general direction of their program with their advisor(s), taking into account their background, interests, professional and academic aims.

20.3 Admission Requirements

1. Candidates must hold a Bachelor’s degree from a recognized university with a minimum standing equivalent to a CGPA of 3.0 out of 4.0.
2. A concentration of courses related to the area chosen for graduate work is required.

20.4 Application Procedure

Applications will be considered upon receipt of:
1. Application form.
2. $60 application fee.
3. A letter of intent, stating professional goals, career plans, reasons for interest in and expectations from the program.
4. Two letters of reference from persons familiar with the prospective student’s academic capabilities.
5. Official Transcripts.
6. A sample of the student's writing and, where appropriate, presentation of a portfolio of work.
7. TOEFL test results (if required).

All information is to be submitted directly to the Graduate Program Director in the Department of Culture and Values in Education. Applicants will be interviewed in person (or by telephone if necessary) by the Director of his/her designated program. Candidates applying for admission for the first time and wishing to start in the summer session must apply by February 1, and those interested in commencing studies in the fall should apply before April 1.

20.5 Program Requirements

M.A. CULTURE AND VALUES IN EDUCATION THESIS OPTION

(45 credits)

Required Courses (6 credits)
423-615 (3) Issues in Education I
423-623 (3) Issues in Education II

Complementary Courses (15 credits)
411-692 (3) Qualitative Research Methods
or equivalent
12 credits, selected in consultation with an advisor and with the approval of the Program Director, of which 9 credits will be in the area of concentration and 3 credits in a complementary area. With the approval of the Program Director some courses may be selected from other McGill departments and/or faculties, or other universities.

Thesis Component – Required (24 credits)
423-690 (6) Thesis Preparation I
423-691 (6) Thesis Preparation II
423-692 (12) Thesis Preparation III

M.A. CULTURE AND VALUES IN EDUCATION NON-THESIS OPTION

(45 credits)

Required Courses (18 credits)
423-615 (3) Issues in Education I
423-623 (3) Issues in Education II
423-633 (12) Special Project

Complementary Courses (24 credits)
411-692 (3) Qualitative Research Methods or equivalent
21 credits, selected in consultation with an advisor and with the approval of the Program Director, of which 15 credits will be in the area of concentration and 6 credits in a complementary area. With the approval of the Program Director some courses may be selected from other McGill departments and/or faculties, or other universities.

Elective Course (3 credits)

20.6 Courses

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

• Denotes courses not offered in 2000-01.

• 423-505 EDUCATION AND SOCIAL ISSUES. (3)
• 423-510 PHILOSOPHICAL THINKING IN THE CLASSROOM. (3)
• 423-603 READING COURSE. (6)
• 423-604 SELECTED EDUCATIONAL THEORIES. (3)
• 423-605 SOCIAL AND EDUCATIONAL FUTURES. (3)
• 423-606 PHILOSOPHY OF MORAL EDUCATION. (3)
• 423-607B VALUES EDUCATION: CONTEMPORARY APPROACHES. (3)
A study of the objectives, content and approaches to the teaching of human and moral values. A critical examination of selected programs dealing with human and moral values.
• 423-608 EDUCATIONAL IMPLICATIONS OF SOCIAL THEORY. (3)
• 423-609 EDUCATIONAL AND PHILOSOPHICAL THOUGHT. (3)
• 423-611 PHILOSOPHICAL ASPECTS OF EDUCATIONAL ENQUIRY. (3)
• 423-614 SOCIOLOGY OF EDUCATION. (3)
• 423-615B ISSUES IN EDUCATION I. (3) An examination of philosophical, aesthetic and values issues in education.
• 423-616 READING COURSE. (3)
• 423-617 AESTHETICS AND EDUCATION. (3)
• 423-618 PERFORMANCE/STUDIO CRITIQUE I. (3)
• 423-622 STUDIES IN COMPARATIVE EDUCATION. (3)
• 423-623A ISSUES IN EDUCATION II. (3) An examination of political, cultural, and multicultural issues in education.
• 423-625A SPECIAL TOPICS: CULTURE IN EDUCATION. (3) In-depth examination of topics in culture in education. Content will vary from year to year and will be announced prior to registration. (Examples: Postmodernism and Education; Antiracist Education; Cultural Relativism and Critical Thinking; Popular Culture and Education.)
• 423-626 SPECIAL TOPICS: VALUES IN EDUCATION. (3) In-depth examination of topics in values in education. Content will vary from year to year and will be announced prior to registration. (Examples: Spirituality and Education; Patterns of Moral/Spiritual Development; Ethics and Education.)
• 423-630 FOUNDATIONS OF RELIGIOUS EDUCATION. (3)
• 423-631 THEORIES OF RELIGIOUS EDUCATION. (3)
• 423-632 PEACE EDUCATION. (3)
• 423-633D SPECIAL PROJECT. (12) (Prerequisite: Completion of program course requirements. For non-thesis students only.) An investigation into an educational problem, or issue, or innovative practice in the student's area of concentration, supervised by the student's supervisor and with departmental approval. The student will complete the Special Project by submitting a monograph, project report or production, accompanied by a written component.
• 423-639B EDUCATION AND DEVELOPMENT. (3) Theories of development and the contribution of education to political, economic and social change.
• 423-641 PATTERNS OF RELIGIOUS DEVELOPMENT I. (3)
• 423-643 WOMEN, EDUCATION AND DEVELOPMENT. (3)
21 Dentistry

Department of Dentistry
Faculty of Dentistry
McGill University
3640 University Street, Room M18
Montreal, QC H3A 2B2
Canada

Telephone: (514) 398-7227
Fax: (514) 398-8900

Dean, Faculty of Dentistry — J.P. Lund
Associate Dean of Dentistry, Graduate Studies and Research — M.D. McKee
Interim Director, Graduate Program in Oral and Maxillofacial Surgery — T.W. Head

21.1 Staff

Professors
M.C. Bushnell; B.A.(Maryland), M.A., Ph.D.(American U.)
J.P. Lund; B.D.S.(Adel.), Ph.D.(W.Ont.)
C.E. Smith; D.D.S., Ph.D.(McG.)
H. Warshawsky; B.Sc.(Sir G. Wms.), M.Sc., Ph.D.(McG.)

Associate Professors
J.S. Feine; D.D.S., M.S.(Texas), H.D.R.
T.W. Head; B.Sc.(Sir G. Wms.), D.D.S., M.Sc.(McG.), F.R.C.D.(C), Dipl. A.B.O.M.S.
M.D. McKee; Ph.D.(McG.)

E.D. Shields; B.Sc.(BailState), D.D.S., Ph.D.(Ind.)

T.W. H e a d
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21.2 Programs Offered

M.Sc. in Dental Sciences

The goal of this program is to train students in research in the dental sciences which comprise a number of disciplines relating to the functioning of the oro-facial complex.

Please consult the Graduate Secretary, Department of Oral Biology, for further details.

M.Sc. in Oral and Maxillofacial Surgery

A residency training program in Oral and Maxillofacial Surgery provides a candidate with a comprehensive background for the practice of Oral and Maxillofacial Surgery as a specialty.

During the four years of the program the candidate serves as a resident principally at the Montreal General Hospital. During this time the resident is given increasing responsibility for the care of in-patients and out-patients, as well as being required to fulfill certain basic science courses and other assignments. A research project must be undertaken, followed by a Master's thesis.

The program is open to one candidate per year.

21.3 Admission Requirements

M.Sc. in Dental Sciences

Students who have successfully completed the D.D.S./D.M.D. degree or a B.Sc. degree with a CGPA of 3.0 in any of the disciplines in the Health Sciences (Anatomy, Biochemistry, Microbiology and Immunology, Physiology) or related disciplines (Biology, Chemistry, Physics, Psychology) are eligible to apply for admission to a graduate program in the Faculty of Dentistry leading to the M.Sc. degree in Dental Sciences. In addition to submitting GRE scores, TOEFL tests must be passed in the case of non-Canadians whose mother tongue is not English.

The number of candidates accepted each year will depend on the elective courses and research facilities available which are applicable to the candidate's area of expertise.

M.Sc. in Oral and Maxillofacial Surgery

Candidates for this program must possess a D.D.S. or D.M.D. degree or its equivalent, and be acceptable to l'Ordre des Dentistes du Québec as a training candidate in a hospital.

21.4 Application Procedures

M.Sc. in Dental Sciences

All applications must include an up-to-date official transcript of academic performance, two letters of recommendation and a brief resume indicating their particular field of interest for the M.Sc. degree. B.Sc. students who have not obtained eligible qualifications will be required to make up for deficiencies in their academic profile by taking a qualifying year.
Students must be accepted by a research director before the Faculty approves the application, prior to final acceptance by the Faculty of Graduate Studies and Research. Deadline for receipt of the completed application is March 1 for Fall; and November 1 for Winter. Applications may be obtained by writing to Office of the Associate Dean, Graduate Studies and Research, Faculty of Dentistry.

M.Sc. in Oral and Maxillofacial Surgery

Applications must be submitted by September 15. Information for financial support for this program may be obtained by writing to Dr. T.W. Head, Interim Director of the program. Further information may be obtained by writing to Graduate Program in Oral and Maxillofacial Surgery, Faculty of Dentistry, McGill University, 3640 University Street, Montreal, Québec H3A 2B2.

21.5 Program Requirements

All students who are registered in Graduate Clinical Programs in the Faculty of Dentistry, McGill University, and who are not already registered with l'Ordre, must register with l'Ordre des Dentistes du Québec. Further information may be obtained from the Registrar of l'Ordre des Dentistes du Québec, 625 Rene-Lévesque Boulevard West, Fifteenth Floor, Montreal, Québec H3B 1R2.

M.SC. IN DENTAL SCIENCES

The M.Sc. degree should normally be completed within 2 years of full-time study.

Required Courses (7 credits)

- 513-607A (3) Principles of Inferential Statistics in Medicine (or equivalent course)
- 4 credits, one graduate seminar
  - 590-671D Graduate Seminars in Dental Sciences
  - 590-771D Graduate Seminars in Dental Sciences

Suggested Complementary Courses (8 – 14 credits)

- 590-562B (2) Calcified Tissues
- 590-654B (3) Mechanisms and Management of Pain
- 504-632D (6) Experimental Morphology
- 504-663D (9) Histology
- 177-524B (3) Topics in Molecular Biology of the Gene

Other complementary courses in the University may be taken with the approval of the supervisor or research director.

Thesis Research Courses (24 – 30 credits)

The required number of Master's thesis credits (minimum 24) will be made up from among the following:

- 590-650A,B,C (3) Thesis Research Course I
- 590-651A,B,C (6) Thesis Research Course II
- 590-652B,C,D,E,G (9) Thesis Research Course III
- 590-653A,B,D,K (15) Thesis Research Course IV

M.SC. IN ORAL AND MAXILLOFACIAL SURGERY

Duration: Four calendar years commencing July 1. The following courses are included in the program:

- 590-611C,D (9) Oral and Maxillofacial Surgery I Seminars
- 590-612C,D (24) Oral and Maxillofacial Surgery I Clinical
- 590-613C,D (3) Anatomy/Surgical Anatomy
- 590-621C,D (12) Anaesthesia
- 590-622A,C,D (6) General Surgery
- 590-623A,C,D (4) Surgical Intensive Care Unit
- 590-624A,C,D (4) Emergency
- 590-625A,C,D (6) Internal Medicine
- 590-626A,C,D (4) Pathology
- 590-631D (9) Oral and Maxillofacial Surgery II Seminars
- 590-632D (3) Oral and Maxillofacial Surgery II Clinical
- 590-633D (24) Research (including thesis)
- 590-641D (9) Oral and Maxillofacial Surgery III Seminars
- 590-642D (18) Oral and Maxillofacial Surgery III Clinical
- 590-643A,D (6) Oral and Maxillofacial Surgery III Trauma
- 590-644C,D (3) Surgical Elective

21.6 Courses for the M.Sc. in Dental Sciences

590-671D and 590-771D GRADUATE SEMINARS IN DENTAL SCIENCES. (4) One advanced research seminar every week over the fall and winter terms given by invited local and out-of-town speakers on their current research in Oral Biology.

Dr. E.D. Shields and staff

590-562B CALCIFIED TISSUES. (3) (3 hours of lecture supplemented by 1 hour laboratory or conferences) An advanced course on the morphology and cell biology of calcified tissues. This course provides a problem-oriented analysis of research on the structure and mechanism of formation of connective tissue, cartilage and bone, but with particular emphasis on the tissues of the tooth.

Dr. H. Warshawsky and Dr. C.E. Smith

590-650A,B,C THESIS RESEARCH I. (3) Independent work under the direction of a supervisor on a research problem in the student's designated area of research.

Research Supervisors

590-651A,B,C THESIS RESEARCH II. (6) Independent work under the direction of a supervisor on a research problem in the student's designated area of research.

Research Supervisors

590-652B,C,D,E,G THESIS RESEARCH III. (9) Independent work under the direction of a supervisor on a research problem in the student's designated area of research.

Research Supervisors

590-653A,B,D,K THESIS RESEARCH IV. (15) Independent work under the direction of a supervisor on a research problem in the student's designated area of research.

Research Supervisors

590-654B MECHANISMS AND MANAGEMENT OF PAIN. (3) Presentation of the neurobiology of pain and analgesia, clinical pain conditions, basic and applied research methods in the study of pain, and the theory and practice of pain management. The course is designed for graduate students interested in pain mechanisms and clinical residents interested in pain management.

Dr. M.C. Bushnell and Dr. A. Vainio

22 Developing Area Studies

Centre for Developing Area Studies
3715 Peel Street
Montreal, QC H3A 1X1
Canada

Telephone: (514) 398-3507
Fax: (514) 398-8432
E-mail: cdasadm@leacock.lan.mcgill.ca
Website: http://www.mcgill.ca/cdas

Director — R.E. Boyd, Ph.D.
Documentalist — Iain Blair
E-mail: cdasdoc@leacock.lan.mcgill.ca

The Centre focuses on research concerning social and economic problems within countries in Africa, Asia, the Caribbean, Latin America and the Middle East, using an interdisciplinary framework. It organizes seminars and conferences on development issues and globalization, primarily in the social sciences.

The Centre has a specialized documentation room, open to the public. In addition, it maintains an active publications program. The Centre works with an international community of scholars, development groups and the public, and is currently involved in a series of research and development projects focusing on gender, environmental management training, the labouring poor, literacy, and foreign investment.

Graduate students with an interest in international development can apply to become fellows.
23 Dietetics and Human Nutrition

School of Dietetics and Human Nutrition
Room MS2-039, Macdonald-Stewart Building
Macdonald Campus, McGill University
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada
Telephone: (514) 398-7762
Fax: (514) 398-7739
E-mail: laduke@macdonald.mcgill.ca
Website: http://www.agrenv.mcgill.ca/dietetic

Director — Katherine Gray-Donald

23.1 Staff
Emeritus Professor
Helen Neilson; B.H.S., M.Sc.(McG.)

Professors
Peter J.H. Jones; B.Sc., M.Sc.(Br.Col.), Ph.D.(Tor.)
Harriet V. Kühnel; B.S.(Penn. St.), M.S.(Oregon St.), Ph.D.(Calif.) (joint appt. with Faculty of Medicine)

Associate Professors
Laurie H.M. Chan; B.Sc., M.Sc.(Hong Kong), Ph.D.(Lond.) (joint appt. with Natural Resource Sciences, and Food Science and Agricultural Chemistry)
Katherine Gray-Donald; B.Sc., Ph.D.(McG.) (joint appt. with Epidemiology and Biostatistics, Faculty of Medicine)
Tim A. Johns; B.Sc.(McM.), M.Sc.(Br.Col.), Ph.D.(Mich.) (joint appt. with Plant Science)
Kristine G. Koski; B.S., M.S.(Wash.), Ph.D.(Calif.) (joint appt. with McGill Nutrition and Food Science Centre, and Division of Experimental Medicine, Faculty of Medicine)
Stan Kubow; B.Sc.(McG.), M.Sc.(Tor.), Ph.D.(Guelph)
Louise Thibault; B.Sc., M.Sc., Ph.D.(Laval)

Assistant Professors
David J. Bissonnette; B.Sc.(McG.), Ph.D.(Tor.)
Linda J. Wykes; B.Sc., M.Sc., Ph.D.(Tor.)

Faculty Lecturer
Linda Jacobs Starkey; B.Sc.(Mt. St. Vincent), M.Sc., Ph.D.(McG.) (University Coordinator, Professional Practice (Stage) in Dietetics)

Cross-Appointed Professors
Franco Carli (Anaesthesia); Katherine Cianflone (Medicine);
L. John Hoffer (Medicine); Errol B. Marliss (Medicine);
Marilyn E. Scott (Parasitology); Simon N. Young (Psychiatry)

Associate Members
Louis Beaumier (Montreal Children's Hospital); Selim Kermasha (Food Sc./Agr. Chem.); Rejeanne Gougeon (Medicine);
Jean-François Yale (Medicine)

Adjunct Professors
Kevin A. Cockell (Health Canada); Jeffrey S. Cohn (Clinical Research Inst. of Canada); Shi-Hsiang Shen (National Research Council Canada)

23.2 Programs Offered
M.Sc., M.Sc.(Applied) and Ph.D. in Human Nutrition.
Candidates may conduct research in areas of nutritional biochemistry, clinical nutrition, community or international nutrition. In addition, eligible candidates may complete the equivalent of a Dietetic Internship for membership in the professional association for registration as Dietitians and Nutritionists in Canada. The M.Sc. and Ph.D. programs are research degrees wherein students may conduct research with one of the faculty members. Most areas of research in Human Nutrition are covered in the School and students may wish to work in the areas of basic or applied research.

The M.Sc.(Applied) is intended to provide advanced learning in Nutrition with substantial course work and either a practicum in the field of Dietetics or a project in the area of Human Nutrition. Students need not define their research area prior to enrollment. Prospective students are encouraged to contact faculty members to discuss potential research areas concurrently to applying to the project option.

Research Facilities: Students may conduct research at the School of Dietetics and Human Nutrition, including the Mary Emily Clinical Nutrition Research Unit, the Centre for Indigenous Peoples' Nutrition and Environment (CINE), or at the McGill University Health Centre.

23.3 Admission Requirements
M.Sc.
Applicants must be graduates of a university of recognized reputation and hold a B.Sc. degree equivalent to a McGill Honours degree in a subject closely related to the one selected for graduate work. Applicants must have at least a cumulative grade point average (CGPA) in McGill University's credit equivalency of 3.2/4.0 during the last four full-time semesters of a completed Bachelor's degree program in nutrition or a closely related field.

Students with limitations in their academic background may be admitted into a qualifying program for a maximum of two semesters if they have met the School's minimum CGPA of 3.2 of 4.0. Successful completion of a qualifying program does not guarantee admission to a degree program.

M.Sc. (Applied)
Applicants to the M.Sc.(Applied) project or practicum options must have a B.Sc.(Nutritional Sciences) or equivalent with a GPA of 3.2 or higher. A current résumé and cover letter should accompany the application form, describing reasons for interest in the applied program and career goals. Two letters of reference from persons familiar with the student’s academic potential and/or work performance are required. The program is available to students who do not have a working knowledge of French, however, not all project or practicum opportunities will be open to them.

Project: All eligible candidates may select the project option. The project option may also serve as a route to dietetics credentialing for some candidates, however, completion of specific undergraduate dietetics course work and practica, with the M.Sc. (Applied) project option, will increase the duration and cost of the program.

Practicum: Applicants who have completed a dietetic internship and six months work experience are eligible for the practicum option. The practicum option may also serve as a route to dietetics credentialing for candidates who have completed all undergraduate dietetics course work, have the required nutrition-related work experience, and therefore require only the dietetic internship; however, the duration and cost of the M.Sc.(Applied) will be increased.

Ph.D.
Admission for Ph.D. studies normally requires a M.Sc. degree in an area related to the chosen field of specialization.

23.4 Application Procedures
Applications for Admission and all supporting documents must be sent directly to:
Student Affairs Office (Graduate Studies)
Macdonald Campus of McGill University
21,111 Lakeshore Road
Sainte-Anne-de-Bellevue, QC H9X 3V9
Canada
Telephone: (514) 398-7925
Fax: (514) 398-7968
E-mail: GRAD@macdonald.mcgill.ca
Applications will be considered upon receipt of a signed and completed application form, $60 application fee, all official transcripts, two signed original letters of reference on official letterhead of originating institution, and (if required) proof of competency in oral and written English by appropriate exams.

Deadlines – For international students, complete applications with supporting documents must reach the Student Affairs Office (Graduate Studies) at Macdonald Campus at least eight months prior to the intended start of program. May 1 for January (winter); September 1 for May (summer); January 1 for September (fall). For domestic students, complete applications with supporting documents must reach the office no later than three months in advance of intended start of program.

Application Fee (non-refundable) – A fee of $60 Canadian must accompany each application (including McGill students), otherwise it cannot be considered. This sum must be remitted using one of the following methods:
1. Certified personal cheque in Cdn.$ drawn on a Canadian bank;
2. Certified personal cheque in U.S. $ drawn on a U.S. bank;
3. Canadian Money order in Cdn. $;
5. Bank draft in Cdn.$ drawn on a Canadian bank;
7. Credit card (by completing the appropriate section of the application form).

Transcripts – Two official copies of all transcripts are required for admission. Transcripts written in a language other than English or French must be accompanied by a certified translation. An explanation of the grading system used by the applicant’s university is essential. It is the applicant’s responsibility to arrange for transcripts to be sent. DOCUMENTS SUBMITTED WILL NOT BE RETURNED. It is desirable to submit a list of the titles of courses taken in the major subject, since transcripts often give code numbers only. Applicants must be graduates of a university of recognized reputation and hold a Bachelor’s degree equivalent to a McGill Honours degree in a subject closely related to the one selected for graduate work. The minimum cumulative grade point average (CGPA) is 3.0/4.0 (second-class upper) or 3.2/4.0 during the last two full-time years of university study. High grades are expected in courses 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) or IELTS (minimum 6.5). The MCHE is not considered equivalent. It is desirable to submit a list of the titles of courses taken in the major subject, since transcripts often give code numbers only. Applicants must be graduates of a university of recognized reputation and hold a Bachelor’s degree equivalent to a McGill Honours degree in a subject closely related to the one selected for graduate work. The minimum cumulative grade point average (CGPA) is 3.0/4.0 (second-class upper) or 3.2/4.0 during the last two full-time years of university study. High grades are expected in courses considered by the academic unit to be preparatory to the graduate program.

Access 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 (if not provided by the student and/or the student’s supervisor). Academic units cannot guarantee financial support through teaching assistantships or other funds.

Qualifying Students – Some applicants whose academic degrees and standing entitle them to serious consideration for admission to graduate studies, but who are considered inadequately prepared in the subject selected may be admitted to a Qualifying Program. The course(s) to be taken in a Qualifying Program will be prescribed by the academic unit concerned. Qualifying students are registered in the Faculty of Graduate Studies and Research, but not as candidates for a degree. Only one qualifying year is permitted. Successful completion of a qualifying program does not guarantee admission to a degree program.

23.5 Program Requirements

M.Sc.

Program requirements for the M.Sc. include a minimum of 45 credits. This is comprised of 31 credits for the thesis (382-680, 681, 682, 683), two credits of required seminars (382-695, 696), and four three-credit graduate courses. The student may be advised to take more than four courses.

M.Sc. (Applied)

Program requirements for the M.Sc. (Applied) include a minimum of 45 credits. This is comprised of 29 course credits (nine three-credit courses and two credits of required seminars (382-695, 696), and 16 credits of project or practicum courses.

Ph.D.

Requirements for the Ph.D. include a course of study recommended by the committee including a comprehensive examination (382-701), a research dissertation, and possibly two credits of required seminars (382-797, 798). Course work at the Ph.D. level normally comprises a smaller portion than for the M.Sc. degree. The research program must clearly show originality and be a contribution to knowledge. At least three years are required to meet the Ph.D. requirements. Outstanding students may be permitted to transfer to the Ph.D. program following the first year of M.Sc. study.

23.6 Courses

● Denotes not offered in 2000-01.

Some courses are given every second year.

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

382-501A NUTRITION IN DEVELOPING COUNTRIES. (3) (2 lectures and 1 seminar) (Prerequisite: Consent of instructor.) This course will cover the major nutritional problems in developing countries. The focus will be on nutrition and health and emphasize young children and other vulnerable groups. The role of diet and disease for each major nutritional problem will be discussed. Staff

382-511B NUTRITION AND BEHAVIOUR. (3) (2 lectures and 1 seminar) (Prerequisite: 382-445A for undergraduate students or consent of instructor.) Discussion of knowledge in the area of nutrition and behaviour through lectures and critical review of recent literature; to discuss the theories and controversies associated with relevant topics; to understand the implications of our knowledge. Topics such as diet and brain biochemistry, stress, feeding behaviour and affective disorders will be included. Professor Thibault

382-512A,B HERBS, FOODS AND PHYTOCHEMICALS. (3) (3 lectures) (Prerequisite: Biochemistry I and permission of instructor.) An overview of the use of herbal medicines and food phytochemicals and the benefits and risks of their consumption. The physiological basis for activity and assessment of toxicity will be presented. Current practices relating to the regulation, commercialization and promotion of herbs and phytochemicals will be considered. Professor Johns

382-600A,B ADVANCED CLINICAL NUTRITION I. (3) (3 lectures) (Prerequisites: Courses in human nutrition, biochemistry and physiology and permission of instructor.) Application of nutrition knowledge in the therapy and support of humans in various physiological and pathological states. The etiology, biochemistry and

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pathology of various medical disorders; their nutritional assessment and treatment  

Professor Koski

● 382-601A,B ADVANCED CLINICAL NUTRITION II. (3) (3 lectures)  
(Prerequisites: 382-377B, 382-344B, 382-445A or equivalent and permission of instructor.)

382-602A,B ADVANCED NUTRITIONAL STATUS ASSESSMENT. (3)  
(1 lecture and 1 lab) (Prerequisites: courses in human nutrition, biochemistry and physiology.) The understanding and evaluation of dietary and anthropometric indices used in the nutritional assessment of individuals and groups.

Staff

● 382-603A,B NUTRITIONAL TOXICOLOGY. (3) (Prerequisites: courses in human nutrition, biochemistry and physiology.)

382-604B INTEGRATED METABOLIC RESEARCH. (3) (2 seminars and 1 lab visit) (Prerequisites: at least one 500 or 600-level course in nutritional biochemistry, e.g. 342-551B, 342-552B, 342-634B, and permission of instructor.) An in-depth analysis of concepts and investigative approaches to in vivo metabolic nutrition research. Seminars will emphasize stable isotope kinetic studies. Visiting scientists and tours of other laboratories will expose students to different approaches to research.

Professor Wykes

382-606A,B RESEARCH METHODS IN HUMAN NUTRITION. (3)  
(3 lectures) (Prerequisites: A graduate course in statistics or permission of the instructor.) Basic approaches, philosophy and techniques used in nutrition research with human populations. The course will include the formation and criticism of designs for research, sampling techniques, measurement and analysis issues and human research ethics.

Professor Gray-Donald

382-608A,B SPECIAL TOPICS I. (3) (Prerequisite: permission of instructor and Director of School. Restricted to graduate students in Nutrition.) Prescribed reading, conference, lectures, assignments and/or practical work on selected topics in student's area of specialization. An approved course outline must be on file in the School's office prior to registration.

Staff

382-609A,B SPECIAL TOPICS II. (3) (Prerequisite: permission of instructor and Director of School. Restricted to graduate students in Nutrition.) An individualized course to allow students to undertake projects in library, laboratory, or field study. An approved course outline must be on file in the School's office prior to registration.

Staff

● 382-610B MATERNAL AND CHILD NUTRITION. (3)

● 382-620A NUTRITION OF INDIGENOUS PEOPLES. (3) (Prerequisite: One course in nutritional sciences.)

382-651A,B,C M.Sc. (APPLIED) NUTRITION I. (3) (Corequisites: 382-606, 382-695) Review of literature and problem definition for both the project option or for placement preparation for practicum option. This course relates to the Human Nutrition M.Sc. (Applied) degree and is required for both project and practicum options.

382-652A,B,C M.Sc. (APPLIED) PROJECT I. (3) (Prerequisite: 382-651) Project design and planning.

382-653A,B,C M.Sc. (APPLIED) PROJECT II. (3) (Prerequisite: 382-652) Project execution. This project relates to the Human Nutrition M.Sc. (Applied) degree.

382-654A,B,C M.Sc. (APPLIED) PROJECT III. (3) (Prerequisite: 382-653) Continuation of project execution and data collection; preliminary analysis. This project relates to the Human Nutrition M.Sc. (Applied) degree.

382-655A,B,C M.Sc. (APPLIED) PROJECT IV. (3) (Prerequisite: 382-654) Data analysis. Submission of project report. This project relates to the Human Nutrition M.Sc. (Applied) degree.

382-656A,B,C M.Sc. (APPLIED) PRACTICUM I. (3) (Prerequisite: 382-651) Clinical or community placement (4 weeks). Submission of placement report. This practicum relates to the Human Nutrition M.Sc. (Applied) degree.

382-657A,B,C M.Sc. (APPLIED) PRACTICUM II. (3) (Prerequisites: 382-656) Continuation of placement (4 weeks). Submission of placement report. This practicum relates to the Human Nutrition M.Sc. (Applied) degree.

382-658A,B,C M.Sc. (APPLIED) PRACTICUM III. (3) (Prerequisite: 382-657) Continuation of placement (4 weeks). Submission of placement report. This practicum relates to the Human Nutrition M.Sc. (Applied) degree.

382-659A,B,C M.Sc. (APPLIED) PRACTICUM IV. (3) (Prerequisites: 382-658) Continuation of placement (4 weeks). Submission of placement report. This practicum relates to the Human Nutrition M.Sc. (Applied) degree.

382-660A,B,C M.Sc. (APPLIED) PRACTICUM II. (1) (Prerequisites: 382-653; 382-659 or 382-655) Oral presentation. This presentation relates to the Human Nutrition M.Sc. (Applied) degree, project and practicum options.

382-660A,B,D,N HUMAN NUTRITION M.Sc. THESIS I. (6) Independent research under the direction of a supervisor toward completion of the M.Sc. thesis.

382-681A,B,D,N HUMAN NUTRITION M.Sc. THESIS II. (6) Independent research under the direction of a supervisor toward completion of the M.Sc. thesis. Presentation of a thesis proposal.

382-682A,B,D,N HUMAN NUTRITION M.Sc. THESIS III. (9) Independent research under the direction of a supervisor toward completion of the M.Sc. thesis.


382-695A,B HUMAN NUTRITION SEMINAR I. (1) Students will present a recent original research article in which the methods and data presentation will be critically analyzed. The article must be approved by the instructor.

382-696A,B HUMAN NUTRITION SEMINAR II. (1) Students will present a recent original research article in which the methods and data presentation will be critically analyzed. The article must be approved by the instructor.

382-701A,B DOCTORAL COMPREHENSIVE EXAMINATION. (See Faculty Regulations)

382-797A,B HUMAN NUTRITION SEMINAR III. (1) Doctoral candidates will present a recent original research article in which the methods and data presentation will be critically analyzed. The article must be approved by the instructor.

382-798A,B HUMAN NUTRITION SEMINAR IV. (1) Doctoral candidates will present a group of recent research articles in which the methods and data presentation will be critically analyzed. The articles must be approved by the instructor.

Students may also take courses in other faculties such as Medicine or Education.

24 Earth and Planetary Sciences

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Chair — Alfonso Mucci

24.1 Staff

Emeritus Professors
E.W. Mountjoy; B.A.Sc.(Br.Col.), Ph.D.(Tor.)
W.H. MacLean; B.Geol.Eng.(Colo. Sch. of Mines), M.Sc.(A), Ph.D.(McG.)
C.W. Steam; B.Sc.(McM.), M.S., Ph.D.(Yale), F.R.S.C.

Professors
J. Arkani-Hamed; B.Eng.(Tehran), Ph.D.(M.I.T.)
in the Canadian Shield, uplift of the Laurentides, paleomagnetism and plate motions.

24.3 Admission Requirements

Applicants should have an academic background equivalent to that of a McGill graduate in the Honours or Major program in geology, geophysics, chemistry, or physics (3.0 out of 4.0). The admissions committee may modify the requirements in keeping with the field of graduate study proposed. In some cases a qualifying year may be required.

24.4 Application Procedures

Applications and all supporting documents should be received in the Department before May 1st for admission the following September. Applicants requiring financial assistance should apply as early as possible. There are no special forms required to apply for financial aid from the Department, as all applicants will be considered for the awards for which they are eligible.

Candidates should indicate their field(s) of interest when making formal application for admission. Specific inquiries concerning the Department should be addressed to Graduate Admissions, Department of Earth and Planetary Sciences.

24.5 Program Requirements

M.Sc. Degree (45 credits)

The M.Sc. degree program includes:

(a) 12 credits from formal graduate courses to be chosen with the approval of the research director and Director of Graduate Studies and
(b) a thesis (33 credits) to be submitted according to the rules of the Faculty and the Department.

Ph.D. Degree

The Ph.D. degree program comprises:

a) an approved program of courses selected in consultation with the student's academic adviser, and approved by the Academic Standing Committee,

b) a comprehensive oral examination at the end of the Ph.D.II, and

c) research leading to a Ph.D. thesis followed by an oral defense.

Highly qualified B.Sc. graduates may be admitted directly to the Ph.D.I year. Students with the M.Sc. degree may be admitted to either the Ph.D.I or Ph.D.II year, depending on their background. Students are required to take 18 credits of graduate course study in the Ph.D.I year, and 6 credits plus a comprehensive oral examination in the Ph.D.II year. There is no language requirement for the Ph.D. degree.

24.6 Graduate Courses

- Denotes not offered in 2000-01.

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

- 186-501B CRYSTAL CHEMISTRY. (3) (2 hours lectures, 1 hour seminar)

- 186-510B GLOBAL GEODYNAMICS AND GEOMAGNETISM. (3) (3 hours lecture) (Prerequisites: 186-320A, 186-350B, 186-319B or permission of the instructor.)

- 186-519A ISOTOPE GEOLOGY. (3) (3 hours lectures) (Prerequisites: U2 core program.)

- 186-530A VOLCANOLOGY. (3) (3 hours lectures) (Prerequisites: 186-212A and 186-321B, or permission of instructor.)

- 186-540B PHANEROZOIC GEOLOGY OF NORTH AMERICA. (3) 186-542A CHEMICAL OCEANOGRAPHY. (3) (Prerequisites: 186-201A, B, 180-257D or equivalents, or registration in Graduate Program in Oceanography.) History of chemical oceanography. Seawater composition and definition of salinity/chlorinity. Minor and trace-element distribution in the ocean. Geochemical mass balance. Dissolved gases in sea water. CO₂ and the carbonate...
Professor Mucci

- **186-545B LOW TEMPERATURE GEOCHEMISTRY AND DIAGNOSIS.** (3) (Prerequisites: 180-203A/213B, 186-212B, 186-312B)
- **186-546A DIAGNOSIS OF SEDIMENTARY ROCKS.** (3) (2 lecture, 3 lab/seminars) (Prerequisites: 186-212B, 186-220B, 186-312A)
- **186-547A THERMOCHEMISTRY OF HIGH-TEMPERATURE GEOLOGICAL SYSTEMS.** (3) (Prerequisites: 180-203/4 or 180-213 or permission of instructor.) The application of thermodynamic principles to igneous and metamorphic petrology and economic geology. Topics include but are not restricted to: solid solutions in minerals, behaviour of geological fluids, phase equilibria, flow processes, estimation of thermodynamic data, etc.  
Professor Baker

- **186-548A MECHANISMS OF IGNEOUS PETROGENESIS.** (3) (2 hours lecture, 1 hour seminar) (Prerequisite: 186-423B)
Staff

- **186-550A SELECTED TOPICS IN EARTH & PLANETARY SCIENCES I.** (3) (2 hours seminar, permission of Department undergraduate adviser) Research seminar and readings in topics concerning some aspects of current development in geological sciences.  
Staff

- **186-551B SELECTED TOPICS IN EARTH & PLANETARY SCIENCES II.** (3) (2 hours seminar, permission of Department undergraduate adviser) Research seminar and readings in topics concerning some aspects of current development in geological sciences.  
Staff

- **186-560A AQUEOUS GEOCHEMISTRY.** (3) (3 hours lecture) (Prerequisites: 186-210A, 186-210B or permission of instructor.) 

- **186-565B LITHOGEOCHEMISTRY OF ALTERED ROCKS.** (3) (2 hours lecture, 3 hours lab)

- **186-601A PETROLOGY OF FELSIC IGNEOUS ROCKS.** (3) (Prerequisite: 186-423A or equivalent.) A review of the mineralogy and phase equilibria relevant to felsic igneous systems. Role of crust and mantle source areas. Importance of postmagmatic phenomena. Petrogenetic schemes in the current literature.  
Professor Martin

- **186-603B PETROLOGY OF MAFIC IGNEOUS ROCKS.** (3) (Prerequisite: 186-423A or equivalent.) A survey of the petrochemistry of basic magmatic provinces with a focus on processes and the origin of terrestrial magmas in upper-mantle source regions.  
Professor Francis

- **186-604D ORE PETROLOGY.** (6) (3 hours lecture or seminar)

- **186-613A REGIONAL STRUCTURAL ANALYSIS.** (3) (2 hours lecture, 2 hours lab) Interpretation of structural measurements in complexly-deformed rocks. Regional geometric, kinematic and tectonic analysis.  
Professor Hynes

- **186-631E FIELD STUDIES IN OROGENIC BELTS.** (3) (2-week field course in May, plus assigned papers)

- **186-636A TIME SERIES ANALYSIS: ADVANCED GEOPHYSICAL APPLICATIONS.** (3) (3 hours) Analysis of geophysical data represented in time- or space-series form: multichannel and multidimensional stochastic processes and their analysis using a) the methods of linear and non-linear filter theory; b) harmonic analysis; c) probabilistic forecasting/prediction theory; d) procedures in deconvolution; e) estimation and detection theory.  
Professor Jensen

- **186-639A EVOLUTION OF PLANETS.** (3)

- **186-639B ORGANIC MATTER IN SEAWATER.** (3)

- **186-644A TOPICS IN ADVANCED EARTH SCIENCES I.** (3) (3 hours lectures or seminars) A survey of a research topic of particular current interest.  
Staff

- **186-645B TOPICS IN ADVANCED EARTH SCIENCES II.** (3) (3 hours lectures or seminars) A survey of a research topic of particular current interest.  
Staff

- **186-650A GREENSTONE BELTS.** (3) (2 hours lecture, 3 hours lab)

- **186-655B LITHOGEOCHEMISTRY OF ALTERED ROCKS.** (3) (2 hours lecture, 3 hours lab)

- **186-660D SEMINAR IN OCEANOGRAPHY.** (2)

- **186-687A,B THESIS PREPARATION I.** (9) Independent study, theoretical and/or laboratory work in connection with the development of an M.Sc. thesis. Success in the course is dependent on presentation of an adequate progress report to the supervisory committee.

- **186-698A,B THESIS PREPARATION II.** (12) Independent study, theoretical and/or laboratory work in connection with the development of an M.Sc. thesis. Success in the course is dependent on presentation of an adequate progress report to the supervisory committee.

- **186-700D PRELIMINARY DOCTORAL EXAMINATION.**  

- **186-706D ADVANCED SEDIMENTOLOGY.** (6) (2 hours lectures or seminar and 3 hours lab)

- **186-708D ADVANCED STRATIGRAPHY.** (6) (3 hours lectures or seminar)

- **186-710A GEOTECTONICS.** (3) (2 hours lectures or seminars)

- **186-713A ECONOMIC GEOLOGY I.** (3) (3 hours seminar) (Prerequisite: undergraduate course in economic geology or permission of the instructor.)

- **186-714B ECONOMIC GEOLOGY II.** (3) (3 hours seminar) (Prerequisite: undergraduate course in economic geology or permission of the instructor.)

- **186-715B INSTRUMENTAL ANALYSIS.** (3) (3 hours lectures, 3 hours lab) Application of analytical instrumental techniques to obtaining reliable chemical data from complex (geological and environmental) materials, and evaluation of the data in problem solving. Electron Microprobe Analysis (WDS and EDS), Scanning Electron Microscopy, X-ray Fluorescence Spectrometry, X-ray Diffraction, Atomic Spectroscopy (Atomic Absorption, ICP and ICP-MS), Neutron Activation Analysis.  
Professor Ahmedali

- **186-716B ECONOMIC GEOLOGY LABORATORY.** (3) (2 hours lectures, 3 hours lab per week)

- **186-717D ADVANCED EARTH PHYSICS.** (6) (2 hours lecture or seminar and assignments)

- **186-719A ISOTOPE GEOLOGY SEMINAR.** (3) (2 hours seminar and assigned reading) (Prerequisites: 186-519A and permission of instructor.)

- **186-721D RECENT SEDIMENTS AND MARINE GEOLOGY.** (6) (3 hours seminar, lectures and assignments)

- **186-725A INDEPENDENT STUDIES IN EARTH & PLANETARY SCIENCES.** (3) (Not available to students who have taken 186-720D. Ineligible for credit in M.Sc. Thesis program.) Research and/or reading project. Independent study under the guidance of qualified staff in areas of special interest to the student.

- **186-726B INDEPENDENT STUDIES IN EARTH & PLANETARY SCIENCES.** (3) (Not available to students who have taken 186-720D. Ineligible for credit in M.Sc. Thesis program.) Research and/or reading project. Independent study under the guidance of qualified staff in areas of special interest to the student.
25 East Asian Studies

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Chair — K. Dean
Director of Graduate Program — G. Fong

25.1 Staff

Professor
R.D.S. Yates; B.A., M.A.(Oxon.), M.A.(Calif.), Ph.D.(Harv.)

Associate Professors
K. Dean; B.A.(Brown), M.A., Ph.D.(Stan.)
G. Fong; B.A., M.A.(Tok.), Ph.D.(Br. Col.)
T. Lamarre; B.A.(Georgetown), M.A., Ph.D.(Chic.), D.Sc.(Aix-Marseille II)

Assistant Professors
T. Looser; B.A.(UC Santa Cruz), M.A., Ph.D.(Chic)
J. Solomon; B.A.(Brown), M.A., Ph.D.(C'nell)

Faculty Lecturers
J. Chang; B.A.(Taiwan), M.A.(Harv.)
S. Hasegawa; M.A.(Montr.)
M. Kim; B.A., M.A.(Montr.)
B. Wang; B.A.(Heilongjiang), M.A.(Calgary)

25.2 Programs Offered

M.A. in East Asian Studies (Ad Hoc).
Ph.D. in East Asian Studies (Ad Hoc).

25.3 Admission Requirements

General

TOEFL and GRE (if applicable).

Applicants who have an undergraduate degree from outside Canada will need to take the Graduate Record Examination. A minimum TOEFL score of 575 is required for all applicants whose native language is not English.

M.A.

Applicants must hold, or expect to hold by September of the year of entry, a bachelor's degree for entry into the M.A. program. Applicants should have a Bachelor of Arts degree with a specialization in East Asia; applicants without this specialization who possess a strong disciplinary background are also invited to apply. Those who have experience with an Asian language, but no formal course work, will be required to take a placement test on admission. Those without knowledge of an Asian language will be required to take three qualifying terms (fall, winter, summer) in which they will complete the second year of language; a minimum of a B+ average must be maintained.

Ph.D.

Applicants must hold, or expect to hold by September of the year of entry, a master's degree in East Asian Studies for entry into the Ph.D. program.

25.4 Application Procedures

Applications will be considered upon receipt of:
1. application form;
2. two copies of official transcripts sent by the university;
3. two letters of reference;
4. $60 application fee;
5. current curriculum vitae (résumé) and a statement of purpose (approximately 500 words for Master's and 10 pages for Ph.D.) indicating the field in which the applicant wishes to study and the reasons for applying to the program.

All of the above should be submitted directly to the Graduate Director, Department of East Asian Studies.

Deadline: March 1st for September admissions

25.5 Program Requirements

Program Requirements for the M.A. Degree (Ad Hoc) (45 credits)

The Department only offers a thesis option. The M.A. program with thesis includes:
a) four 3-credit courses (12 credits),
b) one 3-credit seminar in theory/methodology (3 credits),
c) one 6-credit seminar or two 3-credit seminars (6 credits), and
d) thesis (24 credits).

Language Courses:
1. A maximum of 6 credits of language courses at the 500-level or in a classical Asian language may be counted towards course requirements.
2. Students must have fourth-level language equivalency by the completion of their M.A. program.

Program Requirements for the Ph.D. Degree (Ad Hoc)

After successfully completing the M.A. degree or its equivalent (45 credits minimum), a student will be admitted to the second year of the Ph.D. program. The Graduate Studies Committee will assign an advisory committee to advise the student and specify the student's course program.

Exceptional students with appropriate background at the undergraduate level may be admitted directly into the Ph.D. program. Students must complete at least 24 course credits, with a grade point average of 3.5 or better: this course work must be chosen to identify three distinct fields for the Comprehensive Evaluation. Students may take up to two 3-credit courses or one 6-credit course in another department with the approval of the Graduate Studies Committee.

There are four requirements for obtaining the Doctoral degree:
1) Course work – 24 credits at the 600 or 700 level.
2) Language – Candidates will be required to demonstrate reading knowledge of an Asian language, which may include either modern or literary (classical) language, in addition to the primary Asian language of their research. Candidates will also be expected to demonstrate reading knowledge of both French and English. They may also be required to take a third European language, classical (literary) Chinese, or Japanese, if the Graduate Studies Committee decides those languages are essential for the candidate's research.
3) Ph.D. Comprehensive Evaluation – After the session in which the course work is completed, and no more than one year later except in exceptional circumstances and approved by the Graduate Studies Committee, a candidate will be required to pass the Comprehensive evaluation.
4) Doctoral Dissertation – Within six months after successful completion of the Ph.D. Comprehensive Evaluation, doctoral students should submit to the Graduate Studies Committee, after consultation with the Graduate Program Director and their potential thesis supervisor, a thesis proposal not exceeding five pages. Before submission of the dissertation, candidates are normally required to spend time in Asia researching their project. Research leading to original scholarship is a prerequisite for the acceptance of a Ph.D. thesis.

25.6 Courses for Graduate Students (M.A. and Ph.D.)

Please consult the Department to see which courses are being given in any one academic year.
The course credit weight is given in parentheses (#) after the course title.

117-501A Advanced Topics in Japanese Studies I. (3)

117-502B Advanced Topics in Japanese Studies II. (3)

117-503A Advanced Topics in Chinese Studies I. (3)

117-504B Advanced Topics in Chinese Studies II. (3)

117-515A,B Seminar: Beyond Orientalism. (3)

117-529A,B Contemporary China: Analysis of Change. (3)

117-530D Fourth Level Chinese. (6)

117-537D China Today Through Translation. (6)

117-540D Fourth Level Japanese. (6)

117-543A,B Classical Japanese I. (3)

117-544A,B Classical Japanese II. (3)

117-547A,B Advanced Reading and Translation in Japanese. (3)

117-550A,B Classical Chinese Poetry. (3)

117-551A,B Technologies of the Self in Early China. (3)

117-559A,B Advanced Topics in Chinese Literature. (3)

117-560A,B Buddhist Epistemology. (3)

117-561A,B Visistadvaita Vedanta. (3)

117-562A,B Indian Buddhist Metaphysics. (3)

117-563A,B Buddhist Philosophy. (3)

117-564A,B Indian Buddhist Epistemology. (3)

117-565A,B Indian Buddhist Metaphysics. (3)

117-566A,B Advanced Topics in Japanese Literature. (3)

117-567A,B Women's Writings in Traditional China. (3)

117-568A,B Seminar: Japanese Fiction. (3)

117-569A,B Premodern Chinese Poetry. (3)

117-570A,B Premodern Chinese Narrative. (3)

117-571A,B Premodern Japanese Poetry and Narrative. (3)

117-572A,B Seminar: Popular Culture in Japan. (3)

117-573A,B Seminar: Japanese Culture and Thought. (3)

117-574A,B Seminar: Social Change in Japan. (3)

117-575A,B Chinese Literary Theory and Criticism. (3)

117-576A,B Social Stratification in Japan. (3)

Courses in other departments

Department of Anthropology
151-654A,B Anthropology of China. (3)

Department of History
101-611D Seminar in Traditional Chinese History. (6)
101-618A,B Readings in East Asian History. (3)

101-658D Seminar in Chinese History. (6)
101-668D Japanese Intellectual History. (6)

Department of Political Science
160-649A,B The Mass Approach to Political Development: China. (3)

Faculty of Management
270-625A,B Asia Pacific Management. (3)
272-685A,B Cross Cultural Management. (3)

Faculty of Religious Studies
260-546A,B Indian Philosophy. (3)
260-548A,B Indian Buddhist Metaphysics. (3)
260-549A,B Topics in East Asian Philosophy. (3) (Awaiting University Approval)
260-557A,B Asian Ethical Systems. (3)
260-651A,B Indian Buddhist Philosophy. (3)
260-653A,B Visistadvaita Vedanta. (3)
260-655A,B Buddhist Epistemology. (3)
260-658A,B Japanese Buddhist Philosophy. (3)
260-667A,B Research in Comparative Religions I. (3)

26 Economics

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Chair — Christopher Green

26.1 Staff

Emeritus Professors
Earl F. Beach; B.A.(Queen's), A.M., Ph.D.(Harv.)
Irving Brecher; B.A.(McG.), M.S., Ph.D.(Harv.)
Kari Polanyi-Levitt; B.Sc.(Lond.), M.A.(Tor.)

Professors
Robert D. Cairns; B.Sc.(Tor.), Ph.D.(M.I.T.)
Antal Deutsch; B.Com.(Sir G. Wms.), Ph.D.(McG.) (on leave 2000-01)
Christopher Green: M.A.(Conn.), Ph.D.(Wis.)
Joseph Greenberg; B.A., M.A., Ph.D.(Heb. U. of Jer.)
Jagdish Handa; B.Sc.(Lond.), Ph.D.(Johns H.)
Ngo van Long; B.Ec.(LaT.), Ph.D.(A.N.U.)
Robin Thomas Naylor; B.A.(Tor.), M.Sc.(Lond.), Ph.D.(Cantab.)
J.C. Robin Rowley; B.Sc., M.Sc., Ph.D.(Lond.)

Associate Professors
Venkatesh Balasubramanian; B.A.(Delhi), M.B.A.(Indian Inst. of Mgmt), M.A., Ph.D.(C'nell)
Myron Frankman; B.Mgt.E.(Renss.), Ph.D.(Texas)
John Galbraith; B.A.(Queen's), M.Phil., D.Phil.(Oxon.)
George Grantham; B.A.(Antioch), M.A., Ph.D.(Yale)
Frake Grimald; B.A.(York), Ph.D.(Prin.) (on leave 2000-01)
John Ion; B.A.(McG.), Ph.D.(Johns H.)
C. John Kurien; B.A.(Kerala), M.A., Ph.D.(Vanderbilt)
Mary MacKinnon; B.A.(Queen's), M.Phil., D.Phil.(Oxon.)
Antal Deutsch; B.Com.(Sir G. Wms.), Ph.D.(McG.) (on leave 2000-01)
Christopher Green; M.A.(Conn.), Ph.D.(Wis.)

Assistant Professors
1. Successful completion of the following courses with a grade in
I. M.A. with Thesis:
Deadline: February 1st for financial consideration.
II. M.A. with Research Paper:
1. Successful completion of the following courses with a grade in
each of at least 65% per cent:
Six required credits:
- 154-610A (3 credits) Microeconomic Theory I
- 154-620A (3 credits) Macroeconomic Theory I
Eighteen complementary credits which must include either
154-665A,B (Quantitative Methods) (3 credits) or 154-662D
(Econometrics) (6 credits)
A minimum of 6 credits must be taken in the same field.
2. A research paper of about 50 pages in length.
The total non-thesis program requirement is 48 credits
(24 credits for course work and 24 credits for the research
report). An average grade of 70% in approved courses is need-
ed for graduation.
Econometrics 154-662D or equivalent is strongly recommended
but will not meet the 6 credit field requirement for the M.A.
Residency requirement for the M.A. degree: Three full-terms for
the M.A. degree one of which can be an approved summer term.
Many students are able to complete the M.A. requirements in one
calendar year.

Requirements for the Ph.D. Degree
The requirements for the doctoral degree are:
1. 18 credits in Economics beyond the M.A. requirements, includ-
ing successful completion of the Econometrics course (662D)
or its equivalent. Apart from 662 or equivalent, at least two of
these courses must be in a single field.
2. Successful completion of the Ph.D. Written Comprehensive
Examination.
4. Three years of residence (credit for one year may be granted
for master's work at McGill or for graduate study at another
university).

Ph.D. Comprehensive Examination. This examination consists of
written examinations in Macroeconomics, Microeconomics and
two fields. A third field is also required, although this requirement
is satisfied by successful completion of two half-year courses in
that field.

Doctoral Dissertations Doctoral dissertations make original
contributions to the literature. The topic must be approved by a
two-person supervisory committee whose Chair is the student's
Director of Research. The completed thesis must be approved by
an external examiner as well as by two internal examiners before
the student may defend the work at a formal oral examination.

26.6 Courses for Higher Degrees
- Denotes not offered in 2000-01.
The course credit weight is given in parentheses (#) after the
course title.

154-525B PROJECT ANALYSIS. (3) (Open to advanced undergrad-
uate students.) (Prerequisite: 154-250D, 154-352D or equivalent.)
A course in cost benefit analysis for graduate and advanced
undergraduate students. (Professor Cairns)

- 154-534B PENSION CRISIS. (3)
154-546A GAME THEORY. (3) (Prerequisites: 154-230D or
154-250D) (Open to advanced undergraduate students.) This
course introduces students to game theory, the branch of
the social sciences that focuses on the formal modelling and analysis
of human interactions and strategic behaviour. Basic concepts in
cooperative and non-cooperative games are applied to economic models.

Professor Banerjee

154-577A MATHEMATICAL ECONOMICS I. (3) (Prerequisite: 189-301A/B or equivalent) A mathematical treatment of basic economic theory.

TBA

● 154-578A,B MATHEMATICAL ECONOMICS II. (3) (Prerequisite: 154-577A/B)

154-602A,B ECONOMIC HISTORY. (3) Selected topics in European and North-American economic history are investigated from the standpoint of the interplay of institutional change and quantitative growth.

Professor MacKinnon

154-610A MICROECONOMIC THEORY I. (3) This is the first in a two-course sequence in microeconomics.

Professor Greenberg

The core microeconomics sequence (610A, 611B) provides a rigorous coverage of the economic foundation upon which economic fields are built. Most of the sequence is devoted to building up this foundation of consumer and firm optimisation (including choice under uncertainty), partial and general equilibrium, and welfare economics. The remainder of 611B covers special topics that vary from year to year. These are likely to be drawn from the following: social choice; externalities and public goods; models of asymmetric information; the principal-agent framework; search; basic game theory.

154-611B MICROECONOMIC THEORY II. (3) This is the second in a two-course sequence in microeconomics.

Professor Long

154-620A MACROECONOMIC THEORY I. (3) This course is the first in a two-course sequence in macroeconomics. The course offers a thorough treatment of the fundamentals of macroeconomic theory. Emphasis is placed on the construction of economic models with microeconomic foundations. Topics include market-clearing and non-market-clearing models, capital accumulation, business cycles, monetary policy and fiscal policy.

Professor Ragan

154-621B MACROECONOMIC THEORY II. (3) This is the second in a two-course sequence in macroeconomics. The course provides an in-depth analysis of selected issues in macroeconomic theory, extending and complementing the coverage provided in 154-620A.

Professor Eberwein

● 154-622,B PUBLIC FINANCE. (3)

154-623A MONEY AND BANKING. (3) A rigorous analysis of the demand and supply of money and the role that it plays in the economy. Study of the ideas of the major schools of thought in monetary economics.

Professor Handa

154-624B INTERNATIONAL ECONOMICS. (3) A detailed examination of theories and policies in international trade and finance.

Professor Long

● 154-631A,B HISTORICAL EXPERIENCE OF ECONOMIC DEVELOPMENT. (3)

154-634B ECONOMIC DEVELOPMENT. (3) A systematic treatment of the characteristics and problems of economic development in underdeveloped countries.

Professor Banerjee


Professor Cairns

154-641B LABOUR ECONOMICS. (3) A synthesis of theoretical developments in the area of labour economics with stress upon problems of empirical testing.

Professor Parent

● 154-660B HISTORY OF ECONOMIC THOUGHT. (3)

154-662D ECONOMETRICS. (6) A broad treatment of econometric methods, with particular reference to time series processes. Estimation of linear and non-linear models, GLS, IV, Maximum Likelihood, parametric specification testing for linear and non-linear hypotheses, diagnostic testing (autocorrelation, heteroskedasticity, normality, parameter constancy, etc.), modelling technique, non-stationary data processes.

Professors Galbraith and Zinb-Walsh

154-665B QUANTITATIVE METHODS. (3) A survey of quantitative methods frequently used in economic research. Special emphasis will be placed upon the formulation and evaluation of econometric models. Illustrations will be drawn from the existing empirical literature in economics. Required for all Ph.D. students who have not taken Econometrics as a field.

Professor Galbraith


154-651A,B RESEARCH II. (3) Same description as above.

154-652A,B RESEARCH III. (3) Same description as above.

154-653A,B RESEARCH IV. (3) Same description as above.

154-670A,B THESIS I. (6)

154-671A,B THESIS II. (6)

154-672A,B THESIS III. (6)

154-680A,B M.A. REPORT I. (3) The M.A. Report must demonstrate the candidate's ability to do independent work at the graduate level in a particular field of economics. While length will vary with the subject matter, it is expected that on average reports will be about 50 pages long. The Report will be graded jointly by two members of the Department. The supervisor will normally be one of the examiners.

154-681A,B M.A. REPORT II. (3) Same description as above.

154-682A,B M.A. REPORT III. (3) Same description as above.

154-683A,B M.A. REPORT IV. (3) Same description as above.

● 154-702A,B ECONOMIC HISTORY. (3)

154-705A,B READING COURSE ON SELECTED TOPICS IN ECONOMICS. (3) Reading course in Economics.

Staff

154-706A,B SELECTED TOPICS. (3) (Prerequisites: 154-610, 154-620 and 6 additional credits at the 600 level) Reading course in Economics.

Staff

● 154-710B SELECTED TOPICS IN ECONOMICS. (3)

154-712A,B PUBLIC FINANCE. (3)

154-720A ADVANCED GAME THEORY. (3)

154-721B ADVANCED MONETARY THEORY. (3) Selected topics in monetary theory, the theory of monetary policy, and the history of monetary institutions.

Professor Handa

154-722B MACROECONOMICS. (3)

154-724A INTERNATIONAL ECONOMICS. (3) Selected problems in international trade, foreign exchange and international movements of capital.

Professor Itton

154-734B ECONOMIC DEVELOPMENT. (3)

154-737B INDUSTRIAL ORGANIZATION AND REGULATION. (3) Builds on material covered in 154-637A. Problems are examined in greater depth with specific topics varying from year to year.

Professor Cairns

● 154-741B ADVANCED LABOUR ECONOMICS. (3)

154-742B EMPIRICAL MICROECONOMICS. (3) (Prerequisite: First term of 662D and either 634A or 641A, or consent of the instructor.)

154-744B HEALTH ECONOMICS. (3) The emphasis will be on describing and analyzing the structure and performance of the Canadian health system, though some attention will be given to recent attempts by the federal and provincial governments to deal with current problems in this field. Readings will be selected from the economics and health literature.

Professor Soderstrom

● 154-750A SELECTED TOPICS IN MICROECONOMICS. (3)

154-751A,B SELECTED TOPICS IN MACROECONOMICS. (3)

154-752B TOPICS IN FINANCIAL ECONOMICS. (3) Selected topics in monetary economics and international finance for advanced graduate work in this area.

Professor Bala

● 154-753A SELECTED TOPICS IN MATHEMATICAL ECONOMICS. (3)

154-760B HISTORY OF ECONOMIC THOUGHT. (3)
27.1 Staff

Emeritus Professors
Reginald Edwards, B.Sc. (Lond.), M.Ed.(Man.)
Eigil Pedersen, B.A.(Sir G. Wmns.), M.A.(McG.), Ed.D.(Harv.)

Professors
Mark W. Aulls, B.S.(Ball St.), M.Ed.(Ind.), Ed.D.(Georgia)
Glenn F. Cartwright, B.A.(Sir G. Wmns.), M.A.(McG.), Ph.D.(Alta.),
   F.A.A.S.P., F.C.C.T.
Jeffrey L. Derevensky, B.A.(C. W. Post), M.A., Ph.D.(McG.)
Janet G. Donald, B.A., M.A.(W. Ont.), Ph.D.(Tor.) (joint appt. with
   the Centre for University Teaching and Learning)
Carl H. Frederiksen, B.A.(Harv.), M.A., Ph.D.(Ill.)
Bruce M. Shore, B.Sc., M.A.(McG.), Ph.D.(Calg.)

Associate Professors
Joyce F. Benenson, B.Sc.(Duke), Ph.D.(Harv.)
   (PT)
Robert J. Bracewell, B.Sc., M.A.(McM.), Ph.D.(Tor.)
Alain Breuleux, B.Sc., M.Sc., Ph.D.(Montr.)
Jacob A. Burack, B.A.(Col.), M.S., M.Phil., Ph.D.(Yale)
Janet Donin, B.A.(Tor.), M.A.(Ill.), Ph.D.(Cal.) (joint appt. with
   Educational and Counselling Psychology
James P. Hanrahan, B.A., B.Ed.(St. F.X.), M.A.(McG.),
   Ph.D.(Lond.)
Michael L. Hoover, B.S.(Tulane), M.A., M.Phil., Ph.D.(Col.)
Susanne P. Lajie, B.A., M.A.(McG.), Ph.D.(Stan.)
Robert A. Lavers, B.A.(Bishop's), M.Sc., Ph.D.(McG.)
Evelyn Lusthaus, B.A.(S.U.N.Y. Buffalo)
Theodore J. Maroun, B.S.(S.U.N.Y. Potsdam), M.S.(Canisius),
   M.Ed.(S.U.N.Y. Buffalo), Ed.D.(Ind.)
Lynn McAlpine, B.A.(McG.), M.A.(C'dia), Ph.D.(Tor.) (joint appt. with
   the Centre for University Teaching and Learning)
David D. McWethy, B.S., M.A.(Mich. St.), Ph.D.(Iowa St.) (joint
   appt. with Educational Studies)
   F. Gillian Rejskind, B.A., M.A.(Sask.), Ph.D.(C'dia)
   Alenoush Saroyan, B.A.(Pahlavi), M.Ed.(Loy. U. Chic.),
   Ph.D.(McG.) (joint appt. with the Centre for University Teaching
   and Learning)
Anastassios Stalikas, B.A.(C'dia), M.A., Ph.D.(Ott.)
Renée Stevens, B.A.(U.C.L.A.), M.A., Ph.D.(McG.) (PT)
Barbara Wainrib, B.A.(Brooklyn Coll.), M.Sc.(McG.), D.Ed.(Mass.)
   (PT)
Cynthia B. Weston, B.A. (Georgetown), M.L.S.(S.U.N.Y.),
   D.Ed.(Wash.) (joint appt. with the Centre for University
   Teaching and Learning)

Assistant Professors
Miranda D’Amico, B.A., M.A.(C’dia), Ph.D.(McG.) (PT)
Marlene Dworkind, B.A., M.Ed.(McG.) (PT)
Marilyn Fitzpatrick, B.A.(Tor.), M.Ed., Ph.D.(McG.)
Nancy L. Heath, B.A.(McG.), M.Ed.(Ott.), Ph.D.(Tor.)
Ada L. Sinacore, B.A.(Montclair St.), M.A., Ed.D.(Col.)
Ingrid E. Sladecek, B.A., M.S., Ph.D.(Ariz.), A.A.(Maryland)

Post-retirement
Andrew Hum, William Talley

Adjunct Professors
Annie Alaku, B.Ed.(McG.) (Kativik School Board)
H. Don Allen, B.Sc.(McG.), M.S.T.M.(Santa Clara), Ed.M.,
   Ed.D.(Rutgers)
Bertha Dawang, B.A.(Sir G. Wmns.), M.Ed.(McG.)

27 Educational and Counselling Psychology

Department of Educational and Counselling Psychology
Education Building
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Chair — Bruce M. Shore

Program Directors:
Professional Psychology Program Grouping/
   Counselling Psychology — Theodore J. Maroun
School/Applied Child Psychology —
   Bruce M. Shore (School/Applied Child Psychology)
Associate Program Director —
   Joyce F. Benenson (Applied Developmental Psychology)

Professional Education Program Grouping/
   Educational Psychology — F. Gillian Rejskind (Acting), (Inclusive
   Education); Evelyn Lusthaus (on leave)
Associate Program Directors —
   Rosemary Reilly (Family Life Education)
   F. Gillian Rejskind (General Educational Psychology, Gifted
   Education, and Psychology of Gender)

Cognition and Instruction Program Grouping/
   Educational Psychology —
   Janet G. Donald (Instructional Psychology)
Associate Program Directors —
   Susanne P. Lajoie (Educational Technology)
   Janet Donin (Applied Cognitive Science)
   Lynn McAlpine (Adult Education)

Academic Units

154-761A ECONOMETRICS – TIME SERIES ANALYSIS. (3) (Not
open to students who have taken 154-762D.)

154-762B ECONOMETRICS – ASYMPOTIC AND FINITE – SAMPLE
   THEORY. (3) Exact and asymptotic distribution theory in econo-
   metrics: basic results for estimation and inference in regression
   models, extensions and other selected topics including nonpara-
   metric and distribution-free methods for econometric models.
   Professor Zinde-Walsh

154-763A FINANCIAL ECONOMETRICS. (3) This course covers
   advanced time series methods used in the analysis of financial
data and other potentially non-stationary time series. Topics
   include integrated time series, co-integration, unit root testing,
   conditional heteroscedasticity, long memory, non-parametric and
   neural network models. Applications include market efficiency,
   stochastic volatility and predictability of asset returns. Professor
   Galbraith

154-764B SELECTED TOPICS IN APPLIED ECONOMETRICS. (3) This
course covers econometric tools used in applied microeconomics.
The material includes limited independent variable models: probit
   and logit, censored and truncated regression analysis (Tobit
   models), self-selection models. Discrete and continuous duration
   models will also be covered. Empirical application of these tech-
   niques to cross-sectional and panel data will be emphasized.

154-767A,B APPLIED QUANTITATIVE ECONOMICS. (3) Co-ordinated
   quantitative research projects under the guidance of the instruc-
tors to increase facility in quantitative research.

154-799D PH.D. COMPREHENSIVE EXAMINATION.

Courses offered only in some years:
154-730A,B TOPICS IN ECONOMIC THEORY.
154-753B SELECTED TOPICS IN MATHEMATICAL ECONOMICS.
154-761A,B ECONOMETRICS-TIME SERIES ANALYSIS.